U.S. DEPARTMENT OF COMMERCE
National Technical Information Service

PB-255 281

ACCOMPLISHMENT PLAN

REGION VIII, UTAH LAKE-JORDAN RIVER BASIN

ENVIRONMENTAL PROTECTION AGENCY

4 DECEMBER 1972

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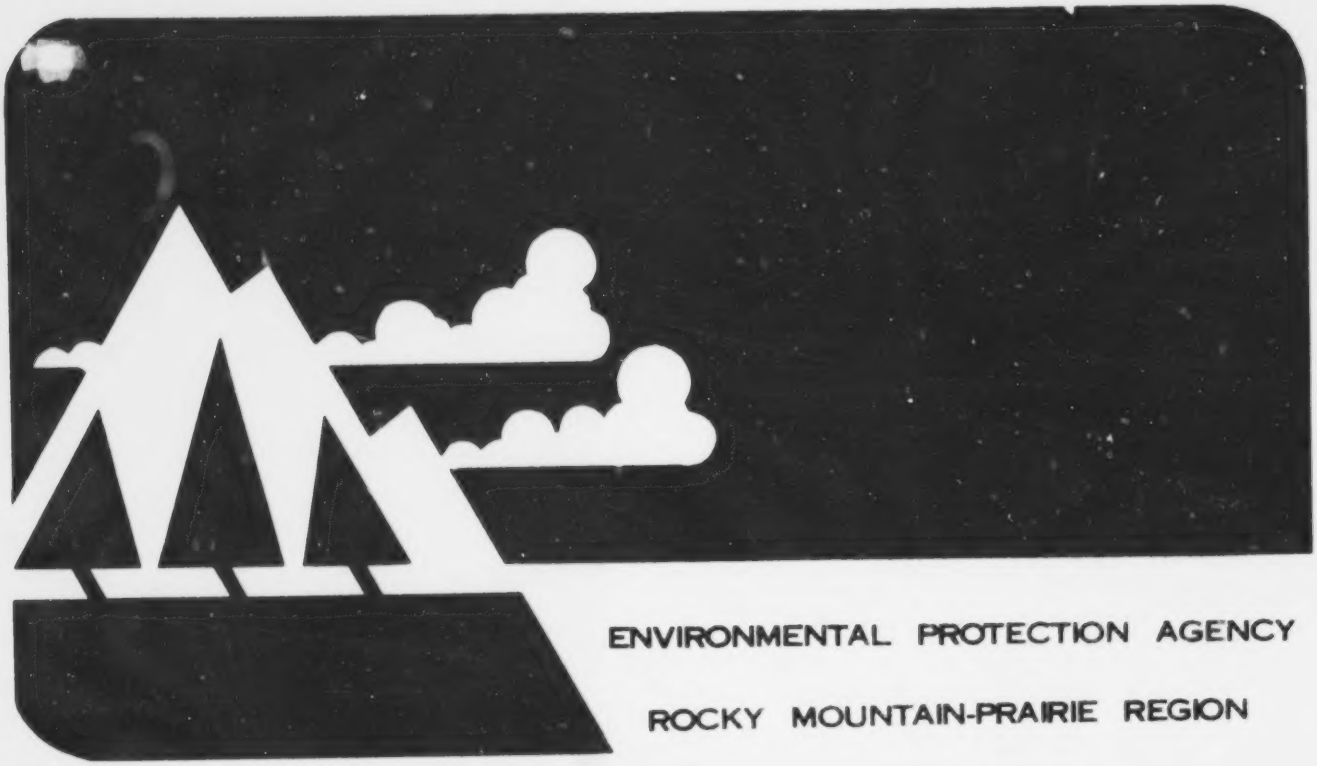

ENVIRONMENTAL PROTECTION AGENCY

ROCKY MOUNTAIN-PRAIRIE REGION

REGION VIII

JORDAN RIVER BASIN

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SPRINGFIELD, VA. 22161

DECEMBER 4, 1972

BIBLIOGRAPHIC DATA SHEET	1. Report No.	2.	3. Recipient's Accession No. PB-255 281
4. Title and Subtitle Accomplishment Plan. Region VIII. Utah Lake-Jordan River Basin			5. Report Date 4 Dec 72 6.
7. Author(s)			8. Performing Organization Rept. No.
9. Performing Organization Name and Address Environmental Protection Agency, Denver, Colo. Region VIII.			10. Project/Task/Work Unit No. 11. Contract/Grant No.
12. Sponsoring Organization Name and Address			13. Type of Report & Period Covered 14.

15. Supplementary Notes

16. Abstracts

This report discusses the Utah Lake - Jordan River Accomplishment Plan for Water Quality which encompasses the headwaters to the Great Salt Lake including all of Salt Lake and Utah Counties. The plan covers 940 stream miles and 150 square miles of surface water (Utah Lake).

17. Key Words and Document Analysis. 17a. Descriptors

*Water quality,
*Jordan River Basin,
*Utah Lake,

Water pollution,
Sewage,
Waste waters,
Provo River,
Industrial wastes,
Utah,
Regional planning.

17b. Identifiers/Open-Ended Terms

17c. COSATI Field/Group 13 B,

18. Availability Statement	19. Security Class (This Report)	21. No. of Pages
National Technical Information Service Springfield, Va. 22161	UNCLASSIFIED	97
	20. Security Class (This Page) UNCLASSIFIED	22. Price $5.00/$2.25

FORM NTIS-38 (REV. 10-73) ENDORSED BY ANSI AND UNESCO. THIS FORM MAY BE REPRODUCED USCOMM-DC 8265-P74

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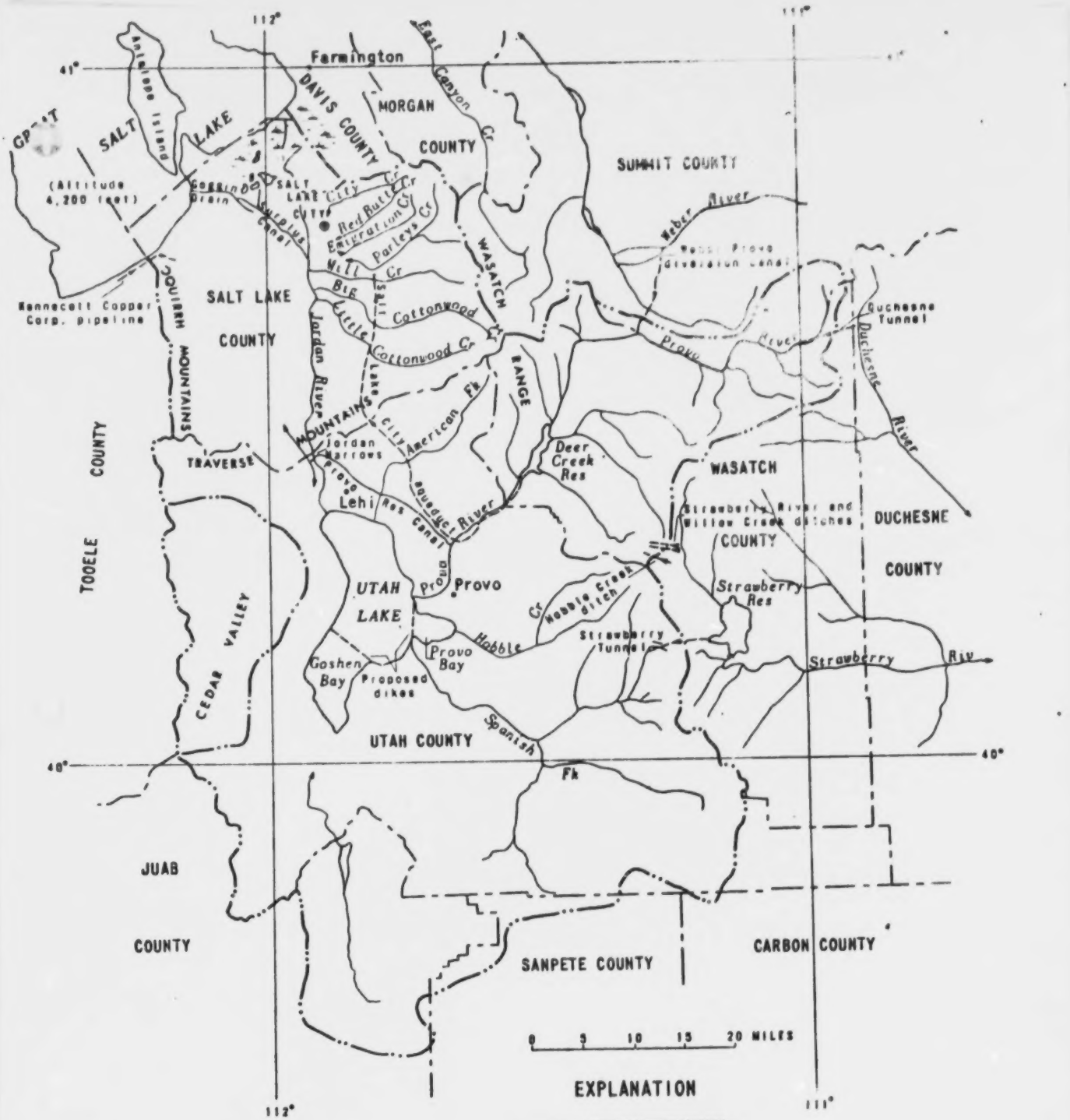

Base from U.S. Geological Survey State base map, 1959, scale 1:500,000

SECTION A

NARRATIVE

UTAH LAKE-JORDAN RIVER ACCOMPLISHMENT PLAN

Figure 9

I. Priority Area Identification

Utah Lake - Jordan River Accomplishment Plan for Water Quality encompasses the headwaters to the Great Salt Lake including all of Salt Lake and Utah Counties. The plan covers 940 stream miles and 150 square miles of surface water (Utah Lake).

II. Problem Assessment

The Basin includes the two largest cities in Utah, Salt Lake City and Provo. (Total Basin population is 704,000). In addition it involves one of the fastest growing urban areas in Region VIII (2.5%/year). Major problems include:

a. The pressures from recreational/second home developments threaten water quality in the major culinary watersheds of Salt Lake County.

b. Water quality in the mainstem of the Jordan River and all of Utah Lake does not meet the standards established for the basin. There is a total of 200 stream miles and 150 square miles of surface waters (Utah Lake) that are in violation of the "C" classification.

c. Present wastewater treatment efficiency does not meet state effluent standards and they generally violate instream standards. Provision will have to be made in most plants to provide advanced treatment to meet standards.

d. All industrial discharges have been identified and commitals for abatement are being pursued. The commitment actions will immediately be changed to permit actions under the new legislation as soon as guidelines are available. The impact of industrial discharges are most severe in Utah Lake where U.S. Steel at Geneva, the No. 1 discharger in the basin, is located.

e. Regionalization in the basin has historically been accomplished with some degree of success. However, the opportunity exists where further consolidation of facilities will result in several miles of stream enhancement and economic gain to the Federal government and to local entities.

f. Current data supports the need for both continued operation and maintenance review and training for wastewater treatment plant operators. As state

resources become available, these programs should be taken over almost entirely by the state.

g. Non-Point Source Pollution is a critical problem throughout much of the basin. Utah Lake has a severe turbidity problem attributed to agricultural return flows to the Spanish Fork River. Non-point sources are not considered in this plan because of a lack of tools for correcting the problem and because of a lack of data.

h. The basin is an intra-state entity and, hence, enforcement actions are constrained. Since Utah Lake and the Jordan River are defined as navigable waterways, under the new Water Quality Act amendments, the EPA will be involved in enforcement actions through municipal permit actions. Legislation will involve the agency in more detail and thereby provide EPA with additional tools for achieving the objectives.

III. Agency Objectives

a. The water quality of the Utah Lake-Jordan River Basin is to meet existing instream 'C' standards by June 30, 1976.

b. Immediate and visible reductions in water quality degradation are to be achieved for major stream reaches by the end of the second quarter of FY 75. This is the date when all domestic discharges must meet a class "D" effluent standard.

IV. Approach

The objectives outlined in Part III above are to be achieved through the time-phased efforts of several different programs within the Region. Coordination and updating of the program and reporting of the program accomplishments will be through the Air and Water Division, Planning Branch (PE 2B 3149).

Achievement of pollutant reductions or commitments from municipal sources during this time period will require major inputs from: the Air and Water Division in the areas of water quality planning (2B 3149), construction grant assistance, review and inspection (PE 2B8162), and assistance and review of treatment plant operation and maintenance practices; the Surveillance and Analysis Division in the areas of technical support and analysis of treatment plant operation (PE 2B 2148) and water quality surveillance and data storage (PE 2B 2149). Lesser but still important and substantial inputs must come from: Air and Water Division's Manpower Development and Training Branch (PE 2B 7160 and 7161), Program Grants Branch (2B 4153), and the Interagency Assistance and Evaluation Branch, environmental impact assessment

and review (PE 2B 6117); the Public Affairs Division (PE 5T 2215) the Management Division, Grants Administration (PE 2B 8316) and the Enforcement Division, Water Quality Enforcement (PE 2B 1123).

Industrial source pollution problems will be dealt with primarily through the Enforcement Divisions Refuse Act Permit Branch (PE 2B 2124) in cooperation with the Surveillance and Analysis Division's Surveillance Branch (PE 2B 2149) and the Air and Water Division's Planning Branch (PE 2B 3149).

Primary coordination contacts outside of EPA include the Utah Bureau of Environmental Health, Utah, Salt Lake and Davis counties, Utah State Planning Office, the Department of Housing and Urban Development, the effected local sewer districts and governments, and the 3(c) consultants for the basin plan.

The general objectives to be met as outlined above, consist of a combination of short-term, interim, and long-term goals and accomplishment dates. Early commitments and reductions will come primarily from past efforts by planning, construction grants operations and the environmental impact review groups.. Interim and long-term solutions based upon operation and maintenance, upgrading of treatment facilities and operator training will be undertaken.

SECTION B

BASIN LOAD SUMMARY

 PRIORITY BASIN WORK SHEET Date September 1972

STORET Minor Basin ID No. 1507

Name of Basin GREAT SALT LAKE MINOR BASIN Region VIII

State(s) Utah

1. Area covered:

Utah Lake-Jordan River Basin.

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2. Water quality objectives:

Parameter[1]	(a) Current criteria (see WQS) mg/l	(b) EPA Objective: Minimum Acceptable Ambient Level (See Table 4) mg/l	(c) Actual Level at Worst Time of Yr. (See Table 2) mg/l	Accuracy (% +) (Regional est.) ± %
BOD_5	5	5	65	10
Total Coli.	5,000/100 ml.	5,000/100 ml.	2,400,000/100 ml.	10

1. See Item 11.

---

3. Estimated pollution load--all sources (average FY 72):

	Load (See Table 4) pounds/day	Accuracy (% +) ± %
BOD_5	19,469	10
Total Coli.	N/A	N/A

---

4. Estimated pollution load reduction required to meet EPA water quality objectives derived from 2(c) - 2(b):

	Required Reduction (Σ of Table 4) pounds/day	Accuracy (% +) ± %
BOD_5	16,331	10

---

5. Reduction firmly committed by FY 72 and prior year actions:

	Year of Actual Reduction			
	FY 73	FY 74	FY 75	FY 76
	lbs/day	lbs/day	lbs/day	lbs/day
BOD_5	577	2565	2820	3102

---

6. Additional reductions to be obtained by FY 73 and FY 74 commitments: (assuming State implementation date is June 30, 1976 instead of Dec. 31, 1978 for 'C' Standard. (See Table 4)

	Year of Actual Reduction			
	FY 73	FY 74	FY 75	FY 76
	lbs/day	lbs/day	lbs/day	lbs/day
BOD_5	0	3252	905	17,393

---

7. Increases in pollution discharges expected: (based on an overall estimate of 10% annual grant).

Year of Actual Increase

	FY 73	FY 74	FY 75	FY 76
	lbs/day	lbs/day	lbs/day	lbs/day
BOD_5	1934	3313	5157	7179

8. Total reductions to be obtained--sum of 5 and 6 above:

Year of Actual Reduction

	FY 73	FY 74	FY 75	FY 76
	lbs/day	lbs/day	lbs/day	lbs/day
BOD_5	577	5817	3725	20,:-5

9. Total reductions required--sum of 4 and 7 above:

Year of Actual Reduction

	FY 73	FY 74	FY 75	FY 76
	lbs/day	lbs/day	lbs/day	lbs/day
BOD_5	17,947	19,624	18,228	20,244

*10. Year in which minimum acceptable water quality levels are to be achieved--compare 8 and 9 above: FY 1976

*Programs are underway to determine treatment design needs and adequacy of adopted water quality standards. If implementation date to meet 'C' standards is not moved up, standards for certain stream reaches will not be met by FY 76.

11. If figures for items 2 through 7 above are not available, please provide estimate of when they will become available through monitoring and other activities: The only parameter reportable at this time is BOD_5. By 1 May 73, additional parameters will be made available through the 3(c) basin planning effort.

Are Items 3, 5, and 6 above derived from detailed discharger inventories?
Yes

12. Key pollutants, if any, for which a weight or other quantity measure is not appropriate:

(Note special problems and comments)

Figure 10 - Continued

PRIORITY BASIN WORK SHEET

Date 9/12
STORET Minor Basin ID No. 1507
Region VIII
State(s) Utah

Name of Basin GREAT SALT LAKE MINOR BASIN

1. Area covered: Utah Lake-Jordan River (Jordan River from Utah Lake to the Surplus Canal).

---

2. Water quality objectives:

Parameter	(a) Current criteria (see WQS) mg/l	(b) EPA Objective: Minimum Acceptable Ambient Level (See Table 4) mg/l	(c) Actual Level at Worst Time of Yr. (See Table 2) mg/l	Accuracy (% +) (Regional est.) ± %
BOD_5	5	5	40	10
Total Coli.	5,000/100 ml.	5,000/100 ml.	750,000/100 ml.	10

---

3. Estimated pollution load--all sources (average FY 72):

	Load (See Table 4) pounds/day	Accuracy (% +) ± %
BOD_5	8461	10
Total Coli.	N/A	N/A

---

4. Estimated pollution load reduction required to meet EPA water quality objectives derived from 2(c) - 2(b):

	Required Reduction (Σ of Table 4) pounds/day	Accuracy (% +) ± %
BOD_5	7260	10

---

5. Reduction firmly committed by FY 72 and prior year actions:

	Year of Actual Reduction			
	FY 73	FY 74	FY 75	FY 76
	lbs/day	lbs/day	lbs/day	lbs/day
BOD_5	228	1464	1623	1798

---

6. Additional reductions to be obtained by FY 73 and FY 74 commitments:

	Year of Actual Reduction				
	FY 73	FY 74	FY 75	FY 76	(See Table 4)
	lbs/day	lbs/day	lbs/day	lbs/day	
BOD_5	0	0	400	9747	

---

7. Increases in pollution discharges expected:

	Year of Actual Increase			
	FY 73	FY 74	FY 75	FY 76
	lbs/day	lbs/day	lbs/day	lbs/day
BOD_5	845	1771	2791	3914

8. Total reductions to be obtained--sum of 5 and 6 above:

	Year of Actual Reduction			
	FY 73	FY 74	FY 75	FY 76
	lbs/day	lbs/day	lbs/day	lbs/day
BOD_5	228	1464	2023	11,245

9. Total reductions required--sum of 4 and 7 above:

	Year of Actual Reduction			
	FY 73	FY 74	FY 75	FY 76
	lbs/day	lbs/day	lbs/day	lbs/day
BOD_5	8173	9099	10,121	11,245

10. Year in which minimum acceptable water quality levels are to be achieved--compare 8 and 9 above: FY 76

11. If figures for items 2 through 7 above are not available, please provide estimate of when they will become available through monitoring and other activities: N/A

Are Items 3, 5, and 6 above derived from detailed discharger inventories? Yes

12. Key pollutants, if any, for which a weight or other quantity measure is not appropriate:

(Note special problems and comments)

Figure 10 - Continued

PRIORITY BASIN WORK SHEET

Date September 1972
STORET Minor Basin ID No. 1507
Region VIII
State(s) Utah

Name of Basin GREAT SALT LAKE MINOR BASIN

1. Area covered: Utah Lake-Jordan River (Utah Lake)

2. Water quality objectives:

Parameter	(a) Current criteria (see WQS) mg/l	(b) EPA Objective: Minimum Acceptable Ambient Level (See Table 4) mg/l	(c) Actual Level at Worst Time of Yr. (See Table 2) mg/l	Accuracy (% +) (Regional est.) ± %
BOD_5	5	5	Approx. 10-15	25
Total Coli.	5,000/100 ml.	5,000/100 ml.	No Data	--

3. Estimated pollution load--all sources (average FY 72):

	Load (See Table 4) pounds/day	Accuracy (% ±) ± %
BOD_5	5958	10
Total Coli.	N/A	N/A

4. Estimated pollution load reduction required to meet EPA water quality objectives derived from 2(c) - 2(b):

	Required Reduction (≤ of Table 4) pounds/day	Accuracy (% ±) ± %
BOD_5	4648	10

5. Reduction firmly committed by FY 72 and prior year actions:

	Year of Actual Reduction			
	FY 73	FY 74	FY 75	FY 76
	lbs/day	lbs/day	lbs/day	lbs/day
BOD_5	0	728	813	907

6. Additional reductions to be obtained by FY 73 and FY 74 commitments:

	Year of Actual Reduction				
	FY 73	FY 74	FY 75	FY 76	(See Table 4)
	lbs/day	lbs/day	lbs/day	lbs/day	
BOD_5	0	0	292	5719	

7. Increases in pollution discharges expected:

	Year of Actual Increase			
	FY 73	FY 74	FY 75	FY 76
	lbs/day	lbs/day	lbs/day	lbs/day
BOD_5	598	1134	1724	2364

8. Total reductions to be obtained--sum of 5 and 6 above:

	Year of Actual Reduction			
	FY 73	FY 74	FY 75	FY 76
	lbs/day	lbs/day	lbs/day	lbs/day
BOD_5	0	728	1105	6626

9. Total reductions required--sum of 4 and 7 above:

	Year of Actual Reduction			
	FY 73	FY 74	FY 75	FY 76
	lbs/day	lbs/day	lbs/day	lbs/day
BOD_5	4860	5396	5996	6626

10. Year in which minimum acceptable water quality levels are to be achieved--compare 8 and 9 above: FY 76

11. If figures for items 2 through 7 above are not available, please provide estimate of when they will become available through monitoring and other activities. N/A

Are Items 3, 5, and 6 above derived from detailed discharger inventories?
Yes

12. Key pollutants, if any, for which a weight or other quantity measure is not appropriate:

(Note special problems and comments)

Figure 10 - Continued

PRIORITY BASIN WORK SHEET

Date September 1972
STORET Minor Basin ID No. 1507
Region VIII
State(s) Utah

Name of Basin GREAT SALT LAKE MINOR BASIN

1. Area covered: Utah Lake-Jordan River (Provo River Basin)

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2. Water quality objectives:

Parameter	(a) Current criteria (see WQS) mg/l	(b) EPA Objective: Minimum Acceptable Ambient Level (See Table 4) mg/l	(c) Actual Level at Worst Time of Yr. (See Table 2) mg/l	Accuracy (% +) (Regional est.) ± %
BOD_5	5	5	65	10
Total Coli.	5,000/100 ml.	5,000/100 ml.	930,000/100 ml.	10

---

3. Estimated pollution load--all sources (average FY 72):

	Load (See Table 4) pounds/day	Accuracy (% +) ± %
BOD_5	590	10

---

4. Estimated pollution load reduction required to meet EPA water quality objectives derived from 2(c) - 2(b):

	Required Reduction (Σ of Table 4) pounds/day	Accuracy (% +) ± %
BOD_5	387	10

---

5. Reduction firmly committed by FY 72 and prior year actions:

	Year of Actual Reduction			
	FY 73	FY 74	FY 75	FY 76
	lbs/day	lbs/day	lbs/day	lbs/day
BOD_5	0	97	108	121

---

6. Additional reductions to be obtained by FY 73 and FY 74 commitments:

	Year of Actual Reduction			
	FY 73	FY 74	FY 75	FY 76
	lbs/day	lbs/day	lbs/day	lbs/day
BOD_5	0	0	5	493

(See Table 4)

---

7. Increases in pollution discharges expected:

	Year of Actual Increase			
	FY 73	FY 74	FY 75	FY 76
	lbs/day	lbs/day	lbs/day	lbs/day
BOD_5	49	103	162	227

8. Total reductions to be obtained--sum of 5 and 6 above:

	Year of Actual Reduction			
	FY 73	FY 74	FY 75	FY 76
	lbs/day	lbs/day	lbs/day	lbs/day
BOD_5	0	97	113	614

9. Total reductions required--sum of 4 and 7 above:

	Year of Actual Reduction			
	FY 73	FY 74	FY 75	FY 76
	lbs/day	lbs/day	lbs/day	lbs/day
BOD_5	436	490	549	614

10. Year in which minimum acceptable water quality levels are to be achieved--compare 8 and 9 above: FY 76

11. If figures for items 2 through 7 above are not available, please provide estimate of when they will become available through monitoring and other activities: FY 76

Are Items 3, 5, and 6 above derived from detailed discharger inventories?

Yes

12. Key pollutants, if any, for which a weight or other quantity measure is not appropriate:

(Note special problems and comments)

Figure 10 - Continued

PRIORITY BASIN WORK SHEET

Date 9/72
STORET Minor Basin ID No. 1507
Region VIII
State(s) Utah

Name of Basin GREAT SALT LAKE MINOR BASIN

1. Area covered: Utah Lake-Jordan River (Jordan River from 2100 South to mouth including Surplus Canal and State Industrial Canal).

2. Water quality objectives:

Parameter	(a) Current criteria (see WQS) mg/l	(b) EPA Objective: Minimum Acceptable Ambient Level (See Table 4) mg/l	(c) Actual Level at Worst Time of Yr. (See Table 2) mg/l	Accuracy (% +) (Regional est.) ± %
BOD_5	5	5	25	10
Total Coli.	5,000/100 ml.	5,000/100 ml.	2,400,000/100 ml.	10

3. Estimated pollution load--all sources (average FY 72):

	Load (See Table 4) pounds/day	Accuracy (% +) ± %
BOD_5	4,460	10
Total Coli.	N/A	N/A

4. Estimated pollution load reduction required to meet EPA water quality objectives derived from 2(c) - 2(b):

	Required Reduction (% of Table 4) pounds/day	Accuracy (% +) ± %
BOD_5	4,036	10

5. Reduction firmly committed by FY 72 and prior year actions:

	Year of Actual Reduction			
	FY 73	FY 74	FY 75	FY 76
	lbs/day	lbs/day	lbs/day	lbs/day
BOD_5	349	276	276	276

6. Additional reductions to be obtained by FY 73 and FY 74 commitments:

	Year of Actual Reduction				
	FY 73	FY 74	FY 75	FY 76	(See Table 4)
	lbs/day	lbs/day	lbs/day	lbs/day	
BOD_5	0	3252	208	1434	

7. Increases in pollution discharges expected:

	Year of Actual Increase			
	FY 73	FY 74	FY 75	FY 76
	lbs/day	lbs/day	lbs/day	lbs/day
BOD_5	442	305	480	674

8. Total reductions to be obtained--sum of 5 and 6 above:

	Year of Actual Reduction			
	FY 73	FY 74	FY 75	FY 76
	lbs/day	lbs/day	lbs/day	lbs/day
BOD_5	349	3528	484	1710

9. Total reductions required--sum of 4 and 7 above:

	Year of Actual Reduction			
	FY 73	FY 74	FY 75	FY 76
	lbs/day	lbs/day	lbs/day	lbs/day
BOD_5	4478	4639	1562	1755

10. Year in which minimum acceptable water quality levels are to be achieved--compare 8 and 9 above: FY 76

11. If figures for items 2 through 7 above are not available, please provide estimate of when they will become available through monitoring and other activities: N/A

Are Items 3, 5, and 6 above derived from detailed discharger inventories
YES

12. Key pollutants, if any, for which a weight or other quantity measure is not appropriate:

(Note special problems and comments)

Figure 10 - Continued

SECTION C

PLANNED ACCOMPLISHMENTS

PLANNED ACCOMPLISHMENTS SCHEDULE

1. Type of Plan a. [X] Sub-Element b. [ ] Part. Sub-Elem. c. [ ] Geo. Area	2. Program Sub-Element Title: Water Quality Planning	3. Sub-Element No.: 2B3149-08	4. Sheet No.: 1 of 1
	5. Geographical Area Title	6. Geo. Area Code	7. Priority

8. Code	9. No.	10. Sched Date of Comp.	11. PLANNED ACCOMPLISHMENTS
	1	1 JUL 74	Monitor development of 3(c) basin plan. (5.5, 6.0)
	2	1 DEC 73	Monitor and review 3(c) interim plan. Support recommendations. (1.0, 1.0)
	3	1 DEC 74	Support recommendations of 3(c) fully developed basin plan. (0, 2.55)
	4	1 JUL 73	Coordinate (with 3(c)) investigation on non-point source pollution. (.2, .2)
	5	30 APR 73	Monitor development of water quality math model. (1.0, 0)
	5A	1 DEC 73	Utilize Math Model to Analyze Water Quality Impact. (.5, 1.0)
	6	30 JUN 76	Stimulate participation in pub. mtg. regarding total basin & basin mgmt. (1.0, 1.0)
	7	30 JUN 76	Planning review of projects. (2.60, 3.0)
	8	1 JUL 73	Influence State to meet 'C' standards by June 30, 1976. (.3, .3)
	9	30 JUN 76	Coordinate EPA basin management with Salt Lake County's "Jordan River Cordinator" (.4,.4
	10	1 JUL 74	Initiate/coordinate and review study of water quality impact of Central Utah Project. (1.0, .5)
	11	1 JUL 74	Augment 3(c) effort and eutrophication study on WQ and biota in Utah Lake. (.3, .3)
	12	1 DEC 73	Initiate effluent monitoring and/or intensive water quality survey of U. S. Steel at Geneva. (.05, .05)
	13	1 JUL 73	Monitor progress of Midvale WWTP construction grant as it applies to Utah State Prison. (.05, 0)

12. FY 1973	13. FY 1974	14. Prepared by & Date	15. Reviewed by & Date	16. Approved for RPIO
a. 1.15 (13.90)	a. 1.50 (18.0) b.			

Planned Accomplishments

PLANNED ACCOMPLISHMENTS SCHEDULE

1. Type of Plan a. [x] Sub-Element b. [ ] Part. Sub-Elem. c. [ ] Geo. Area	2. Program Sub-Element Title: Water Pollution Source Surveillance	3. Sub-Element No. 2B2148-08	4. Sheet No. 1 of 1
	5. Geographical Area Title	6. Geo. Area Code	7. Priority

8. Code	9. No.	10. Sched Date of Comp.	11. PLANNED ACCOMPLISHMENTS
	1	1 JUL 73	Coordinate (with 3(c)) investigation on non-point source pollution. (.1, .1)
	2	1 DEC 74	Complement O & M Surveys with water quality studies (.25, .25)
	3	1 DEC 73	Review 3(c) sampling program (.2, .25)
	4	1 DEC 73	Review existing data and 3(c) objectives and initiate surveys as requested on Deer Creek Reservoir and agricultural return flows. (.2, .5)
	5	1 JUL 74	Augment 3(c) effort regarding eutrophication of Utah Lake. (.1, .5)
	6	1 JAN 74	Initiate intensive WQ Survey at U.S. Steel at Geneva. (.3, .5)
	7	1 JUL 74	Coordinate respiration studies of bottom deposits and biota in Jordan River. (.05, .3)
	8	30 JUN 76	Investigate impact of proposed Jordan River reservoirs. (Open)

12. FY 1973		13. FY 1974		14. Prepared by & Date	15. Reviewed by & Date	16. Approved for RPIO
a. .10 (1.20)	b.	a. .20(2.4)	b.			

Planned Accomplishments

PLANNED ACCOMPL. IMENTS SCHEDULE

1. Type of Plan a. [x] Sub-Element b. [ ] Part. Sub-Elem. c. [ ] Geo. Area	2. Program Sub-Element Title: Construction Grants Administration	3. Sub-Element No.: 2B8316-08	4. Sheet No.: 1 of 1
	5. Geographical Area Title	6. Geo. Area Code	7. Priority

8. Code	9. No.	10. Sched Date of Comp.	11. PLANNED ACCOMPLISHMENTS
	1	1 JUL 72	Administrative review of projects. (1.0, 1.0)

12. FY 1973		13. FY 1974		14. Prepared by & Date	15. Reviewed by & Date	16. Approved for RPIO
a. .08(1.0)	b.	a. .08(1.0)	b.			

Planned Accomplishments

PLANNED ACCOMPLISHMENTS SCHEDULE

1. Type of Plan a. [X] Sub-Element b. [ ] Part. Sub-Elem. c. [ ] Geo. Area	2. Program Sub-Element Title Operation & Maintenance	3. Sub-Element No. 208163-08	4. Sheet No. 1 of 2
	5. Geographical Area Title	6. Geo. Area Code	7. Priority

8. Code	9. No.	10. Sched Date of Comp.	11. PLANNED ACCOMPLISHMENTS
	1	1 DEC 74	Conduct O & M Surveys on 15 WWTP's (4.0, 4.5)
	2	1 DEC 74	1. Heber City
	3	1 DEC 74	2. Midway
	4	1 OCT 73	3. Provo
	5	1 OCT 73	4. American Fork
	6	1 JUL 74	5. Springville
	7	1 JUL 74	6. Salem
	8	1 JUL 74	7. Spanish Fork
	9	1 DEC 73	8. Orem
	10	1 JUL 74	9. Lehi
	11	1 JUL 74	10. Payson
	12	1 JUL 74	11. Pleasant Grove
	13	1 JAN 73	12. Murray
	14	1 JAN 73	13. South Davis County SID, South Plant
	15	1 JAN 73	14. South Salt Lake
	16	1 JAN 73	15. South Davis County SID, North Plant

12. FY 1973		13. FY 1974		14. Prepared by & Date	15. Reviewed by & Date	16. Approved for EPA
a. .38(4.55)	b.	a. .38(4.55)	b.			

Planned Accomplishments

PLANNED ACCOMPLISHMENTS SCHEDULE

1. Type of Plan a. ☐ Sub-Element b. ☐ Part. Sub-Elem. c. ☐ Geo. Area	2. Program Sub-Element Title Operation & Maintenance	3. Sub-Element No. 2B8163-08	4. Sheet No. 2 of 2
	5. Geographical Area Title	6. Geo. Area Code	7. Priority

8. Code	9. No.	10. Sched Date of Comp.	11. PLANNED ACCOMPLISHMENTS
	17	1 JUL 73	Insure implementation of recommendations of O & M Survey
	18		1. Granger-Hunter (.05, 0)
	19		2. Salt Lake County Cottonwood (.05, 0)
	20		3. Salt Lake City Suburban #1 (.10, 0)
	21		4. TRI-Community (Midvale) (.10, 0)
	22		5. Sandy (.10, 0)
	23	1 JUL 73	Provide follow up assistance to Sandy (.10, 0)
	24	30 JUN 76	Influence State to promote improved O & M Studies (.05, .05)

12. FY 1973		13. FY 1974		14. Prepared by & Date	15. Reviewed by & Date	16. Approved for RPC
a.	b.	a.	b.			

Planned Accomplishments

PLANNED ACCOMPL. ...ENTS SCHEDULE

1. Type of Plan a. [X] Sub-Element b. [ ] Part. Sub-Elem. c. [ ] Geo. Area	2. Program Sub-Element Title Direct Training/Water	3. Sub-Element No. 2B7160-08	4. Sheet No. 1 of 1
	5. Geographical Area Title	6. Geo. Area Code	7. Priority

8. Code	9. No	10. Sched Date of Comp.	11. PLANNED ACCOMPLISHMENTS
	1	1 DEC 74	Conduct O & M Surveys on 15 WWTP's

12. FY 1973		13. FY 1974		14. Prepared by & Date	15. Reviewed by & Date	16. Approved for RPIO
a. .24	b.	a. .24	b.			

Planned Accomplishments

PLANNED ACCOMPL. IMENTS SCHEDULE

1. Type of Plan a. [X] Sub-Element b. [ ] Part. Sub-Elem. c. [ ] Geo. Area	2. Program Sub-Element Title: Water Quality Standards	3. Sub-Element No.: 2B1143-08	4. Sheet No.: 1 of 1
	5. Geographical Area Title	6. Geo. Area Code	7. Priority

8. Code	9. No.	10. Sched Date of Comp.	11. PLANNED ACCOMPLISHMENTS
	1	30 APR 73	Monitor development of water quality math model. (2.0, 0)
	2	1 DEC 73	Utilize math model to analyze water quality impact of 3(c) plan. (1.0, 2.0)
	3	30 JUN 76	Continue to utilize math model in evaluating management programs. (0, 1.0)

12. FY 1973		13. FY 1974		14. Prepared by & Date	15. Reviewed by & Date	16. Approved for BPIO
a. .25(3.0)	b.	a. .25(3.0)	b.			

Planned Accomplishments

PLANNED ACCOMPLISHMENTS SCHEDULE

1. Type of Plan a. [X] Sub-Element b. [ ] Part. Sub-Elem. c. [ ] Geo. Area	2. Program Sub-Element Title: Water Pollution Control Agency Grants	3. Sub-Element No.: 2B4153-08	4. Sheet No.: 1 of 1
	5. Geographical Area Title	6. Geo. Area Code	7. Priority

8. Code	9. No.	10. Sched Date of Comp.	11. PLANNED ACCOMPLISHMENTS
	1	30 JUN 76	Coordinate State program plan with basin management. (.48, .48)

12. FY 1973	13. FY 1974	14. Prepared by & Date	15. Reviewed by & Date	16. Approved for RPIO
a. .04 (.48) b.	a. .04 (.48) b.			

Planned Accomplishments

PLANNED ACCOMPL. ...ENTS SCHEDULE

1. Type of Plan a. [X] Sub-Element b. [ ] Part. Sub-Elem. c. [ ] Geo. Area	2. Program Sub-Element Title Manpower Planning/Water	3. Sub-Element No. 2B/161-08	4. Sheet No. 1 of 1
	5. Geographical Area Title	6. Geo. Area Code	7. Priority

8. Code	9. No.	10. Sched Date of Comp.	11. PLANNED ACCOMPLISHMENTS
	1	1 JUL 73	Influence state to obtain mandatory waste treatment operator certification. (.22, 0)
	2	30 JUN 76	In-house manpower planning-employment and training projections. (.50, 0)

12. FY 1973		13. FY 1974		14. Prepared by & Date	15. Reviewed by & Date	16. Approved for RPIO
a. .06 (0.72)	b.	a.)	b.			

Planned Accomplishments

PLANNED ACCOMPL. IMENTS SCHEDULE

1. Type of Plan a. ☐ Sub-Element b. ☐ Part. Sub-Elem. c. ☐ Geo. Area	2. Program Sub-Element Title: Env. Impact Statements Review/WTR	3. Sub-Element No. 2B6117-08	4. Sheet No. 1 of 1
	5. Geographical Area Title	6. Geo. Area Code	7. Priority

8. Code	9. No.	10. Sched Date of Comp.	11. PLANNED ACCOMPLISHMENTS
	1	30 JUN 76	Environmental Impact Review of Projects (1.0, .5)
	2	1 JAN 74	Review and assist in preparation of Environmental Impact Statement for 3(c) basin plan. (50,1.0
	3.	1 JUL 74	Initiate and/or coordinate and review of study of water quality impact of Central Utah Project. (.54, .54)

12. FY 1973		13. FY 1974		14. Prepared by & Date	15. Reviewed by & Date	16. Approved for RPIO
a. .17(2.04)	b.	a. .17(2.04)	b.			

Planned Accomplishments

PLANNED ACCOMPL. IMENTS SCHEDULE

1. Type of Plan a. [X] Sub-Element b. [ ] Part. Sub-Elem. c. [ ] Geo. Area	2. Program Sub-Element Title Operator Training/Water	3. Sub-Element No. 2B7158-08	4. Sheet No. 1 of 1
	5. Geographical Area Title	6. Geo. Area Code	7. Priority

8. Code	9. No.	10. Sched Date of Comp.	11. PLANNED ACCOMPLISHMENTS
	1	30 JUN 76	Conduct operator training program for wastewater treatment facilities. (2.04, 2.04)

12. FY 1973		13. FY 1974		14. Prepared by & Date	15. Reviewed by & Date	16. Approved for RPIO
a. .17(2.04)	b.	a. .17(2.04)	b.			

Planned Accomplishments

PLANNED ACCOMPLISHMENTS SCHEDULE

1. Type of Plan a. [X] Sub-Element b. [ ] Part. Sub-Elem. c. [ ] Geo. Area	2. Program Sub-Element Title Refuse Act Permits	3. Sub-Element No. 3B2124-08	4. Sheet No. 1 of 2
	5. Geographical Area Title	6. Geo. Area Code	7. Priority

8. Code	9. No.	10. Sched Date of Comp.	11. PLANNED ACCOMPLISHMENTS
	1	1 JUL 74	Secure and review commitments*in RAPP applications. (27.0, 32.0)
	2	1 JUL 73	Request from industries and/or state water quality monitoring programs for all industrial dischargers not presently being monitored. (15.0, 19.0)
	3	1 DEC 73	Coordinate with RAPP state engineer to secure commitment* from Clearview Trout Farm, UT 205
	4	15 SEP 73	Establish effluent temperature limit for Utah Power and Light, UT 079
	5	1 SEP 73	Secure commitment*from U.S. Steel at Geneva for effluent limits.
	6	15 NOV 73	Secure commitment*for temperature limit from Reilly Tar and Chemical, UT186
	7	15 NOV 73	Secure commitment*, if needed, on effluent limit for Pacific States Cast Iron Pipe.
	8	1 FEB 74	Request monitoring program to determine effluent characteristics for Pacific States Cast Iron Pipe, UT 274
	9	1 JAN 74	Encourage monitoring program for Utah Division of Wildlife, UT 190
	10	1 JAN 74	Insure monitoring program is initiated.
	11	30 JUN 74	Monitor progress of abatement schedule for Key Industries, UT 227
	12	1 JAN 74	Insure monitoring program for Key Industries is initiated.
	13	1 NOV 73	Work with State of Utah and Utah Wool Pulling Company to devise interim abatement measures.

12. FY 1973		13. FY 1974		14. Prepared by & Date	15. Reviewed by & Date	16. Approved for RPIO
a. 3.50 (42.0)	b.	a. 4.25 (51.0)	b.			

Planned Accomplishments

PLANNED ACCOMPLISHMENTS SCHEDULE

1. Type of Plan a. ☐ Sub-Element b. ☐ Part. Sub-Elem. c. ☐ Geo. Area	2. Program Sub-Element Title: Refuse Act Permits	3. Sub-Element No.: 3B2124-08	4. Sheet No.: 2 of 2
	5. Geographical Area Title	6. Geo. Area Code	7. Priority

8. Code	9. No.	10. Sched Date of Comp.	11. PLANNED ACCOMPLISHMENTS
	14	1 JAN 74	Secure commitment* from Phillips Petroleum for best practicable or maintenance of stream standards.
	15	1 JAN 74	Secure and review commitment* from Utah Power and Light, UT 082 to limit thermal discharge to 95° F.
	16	1 JAN 74	Secure and review commitment* for Utah Power and Light, UT 081 to limit thermal discharge to 95° F.
	17	1 DEC 73	Obtain water quality data on Denver and Rio Grande RR, UT 180
			*These letters of commitment will be changed to permit actions immediately under the new legislation as soon as guidelines are available.

12. FY 1973		13. FY 1974		14. Prepared by & Date	15. Reviewed by & Date	16. Approved for RPIO
a.	b.	a.	b.			

Planned Accomplishments

PLANNED ACCOMPLISHMENTS SCHEDULE

1. Type of Plan a. [x] Sub-Element b. [ ] Part. Sub-Elem. c. [ ] Geo. Area	2. Program Sub-Element Title: Construction Grants Operations	3. Sub-Element No. 28162	4. Sheet No. 1 of 1
	5. Geographical Area Title	6. Geo. Area Code	7. Priority

8. Code	9. No.	10. Sched Date of Comp.	11. PLANNED ACCOMPLISHMENTS
	1	30 JUN 76	Review and process 20 construction grant applications. (5.60, 5.80)
			Conduct pre-application and pre-construction conferences on 8 projects.
	2	1 NOV 73	1. Provo (.05, .05)
	3	1 NOV 73	2. American Fork (.05, .05)
	4	1 JUL 73	3. Spanish Fork (.05, 0)
	5	1 DEC 73	4. Lehi (.05, 0)
	6	1 NOV 73	5. Granger-Hunter (.05, .05)
	7	1 NOV 73	6. Salt Lake County Cottonwood (.05, .05)
	8	1 JUL 73	7. Sandy (.05, 0)
	9	1 SEP 73	8. Heber City
	10	1 JUL 73	Insure compliance with 'D' standards through final inspection on Murray WWTP. (.05, 0)

12. FY 1973	13. FY 1974	14. Prepared by & Date	15. Reviewed by & Date	16. Approved for EPIO
a. .50(6.0) b.	a. .50(6.0) b.			

Planned Accomplishments

PLANNED ACCOMPLISHMENTS SCHEDULE

1. Type of Plan a. ☐ Sub-Element b. ☐ Part. Sub-Elem. c. ☐ Geo. Area	2. Program Sub-Element Title: Water Quality Enforcement	3. Sub-Element No.: 3B1123-08	4. Sheet No.: 1 of 1
	5. Geographical Area Title: Jordan	6. Geo. Area Code	7. Priority

8. Code	9. No.	10. Sched Date of Comp.	11. PLANNED ACCOMPLISHMENTS
	1	30 JUN 76	Carry out necessary enforcement actions in support of permit program.

12. FY 1973		13. FY 1974		14. Prepared by & Date	15. Reviewed by & Date	16. Approved for EPA
a. .50 (6.0)	b.	a. .50(6.0)	b.			

Planned Accomplishments

PLANNED ACCOMPL. IMENTS SCHEDULE

1. Type of Plan a. ☐ Sub-Element b. ☐ Part. Sub-Elem. c. ☐ Geo. Area			2. Program Sub-Element Title: Water Quality Information System	3. Sub-Element No.: 2B2146-08	4. Sheet No.: 1 of 1
			5. Geographical Area Title	6. Geo. Area Code	7. Priority
8. Code	9. No.	10. Sched Date of Comp.	11. PLANNED ACCOMPLISHMENTS		
	1	1 JUL 74	Coordinate STORET Program with 3(c) consultants and State. Process,		
			store and retrieve data as necessary.		

12. FY 1973		13. FY 1974		14. Prepared by & Date	15. Reviewed by & Date	16. Approved for RPIO
a. .17(2.04)	b.	a. .17(2.04)	b.			

Planned Accomplishments

PLANNED ACCOMPL. .MENTS SCHEDULE

1. Type of Plan a. ☐ Sub-Element b. ☐ Part. Sub-Elem. c. ☐ Geo. Area	2. Program Sub-Element Title: Spill Prevention and response.	3. Sub-Element No.: 2B1144-08	4. Sheet No.: 1 of 1
	5. Geographical Area Title	6. Geo. Area Code	7. Priority

8. Code	9. No.	10. Sched Date of Comp.	11. PLANNED ACCOMPLISHMENTS
	1	30 JUN 76	Investigate all primary sources as spill accidents occur. (1.0, 1.0)
	2	30 JUN 74	Coordinate hazardous spills program with Salt Lake City Mutual Aid Group. (.20, .20)

12. FY 1973		13. FY 1974		14. Prepared by & Date	15. Reviewed by & Date	16. Approved for RPIO
a. .10(1.20)	b.	a. .10(1.20)	b.			

Planned Accomplishments

PLANNED ACCOMPLISHMENTS SCHEDULE

1. Type of Plan	2. Program Sub-Element Title	3. Sub-Element No.	4. Sheet No.
a. [X] Sub-Element b. [ ] Part. Sub-Elem. c. [ ] Geo. Area	Regional Management	5T1214-08	1 of 1
	5. Geographical Area Title	6. Geo. Area Code	7. Priority

8. Code	9. No.	10. Sched. Date of Comp.	11. PLANNED ACCOMPLISHMENTS
	1	1 JAN 75	Make Press releases on basin problem and clean up progress as appropriate. (.5, .5)
	2	1 JAN 74	Prepare public information materials regarding Jordan River Basin. (.22, .22)

12. FY 1973		13. FY 1974		14. Prepared by & Date	15. Reviewed by & Date	16. Approved for RPIO
a. .06 (.72)	b.	a. .06(.72)	b.			

Planned Accomplishments

FORM VI

PRIORITY BASIN ACCOMPLISHMENTS: SEMI-ANNUAL PREPARAT[illegible] MILESTONES REPORT — DATE SUBMITTED: Septem[illegible] 1972

REGION VIII — First HALF, 1973 — BASIN: JORDAN

PREPARED BY: Max H. Dodson (Name) — Water Resources Planner (Title) — TEL. 837-4963

APPROVED BY: (Name) — (Title) — (Initials)

MILESTONES	DATE MILESTONE ATTAINED or TO BE ATTAINED	LIST ANY MISSING OR INADEQUATE PREPARATIONS AND INDICATE FOR EACH PERIOD IN CURRENT STATUS. DISCUSS THOSE NEEDING HEADQUARTERS ATTENTION, INCLUDING REASONS, CORRECTIVE MEASURES, AND IMPLICATIONS FOR FUTURE PROGRESS. USE SUPPLEMENTARY SHEETS AS NECESSARY.
CRITICAL WQ DATA OBTAINED	To be attained 1 July 73	3(c) consultant to obtain dissolved oxygen data, TSS, TDS and nutrient data.
CRITICAL EFFLUENT DATA OBTAINED	1 October 72	
NECESSARY MODELING COMPLETED	To be attained April 1973	Modeling program in contractual state. Table completed April 1973.
108(a)/FULLY DEVELOPED PLANS FOR AREA APPROVED AND NO REVISIONS NEEDED	To be attained 1 April 1973	Contractual completion date is 1 December 73. Revisions will be made and plan approved by 1 April 1973
STATE PRIORITIES FOR 1 & 5 YEAR NEEDS CONFORMED WITH ACCOMPLISHMENT PLAN	To be attained 1 July 73	State will be encouraged to establish implementation.
EFFLUENT GUIDELINES FOR CRITICAL SOURCES AVAILABLE	1 October 1972	Available through RAPP applications and commitment letters and state standards.
WQ CRITERIA COVERING ALL CRITICAL PARAMETERS IN AREA APPROVED AND NO REVISIONS NEEDED	1 October 72	'C' Water Quality Standards involve BOD_5, DO, pH, Temperature and Toxics.
USE DESIGNATIONS AND NONDEGRADATION STATEMENTS FOR AREA WATERS APPROVED AND NO REVISIONS NEEDED	No	There is a degradation policy for the State but the implementation of the 'C' standards is considered adequat
IMPLEMENTATION SCHEDULES COVERING THE AREA'S DISCHARGERS APPROVED AND CONFORMED WITH ACCOMPLISHMENT PLAN	No	'C' standards must be met by discharger by December 31, 1978.

SECTION D

POINT SOURCE LOADS AND LOCATIONS

BASIN PRIORITIES

Priority Number	Priority Value	Discharger
1	10	U.S. Steel of Geneva, UT 181
	10	Utah Wool Pulling, UT 159
	10	Granger-Hunter WWTP
	10	Salt Lake County Cottonwood WWTP
2	9.5	Phillips Petroleum, UT 211
3	8.0	Provo WWTP
4	6.0	American Fork WWTP
5	5.0	Utah Power & Light, UT 079
	5.0	Utah Power & Light, UT 082
6	3.5	Murray WWTP
	3.5	Reilly Tar & Chem., UT 186
7	3.0	Salt Lake Sub. #1 WWTP
	3.0	Pacific States Cast Iron Pipe, UT 274
8	2.0	Springville WWTP
	2.0	Salem WWTP
9	1.5	TRI-Community WWTP
	1.5	S. Davis County, North WWTP
	1.5	S. Salt Lake WWTP
	1.5	S. Davis Co., South WWTP
	1.5	Spanish Fork WWTP
	1.5	Heber City WWTP
	1.5	Orem WWTP
	1.5	Lehi WWTP
	1.5	Payson WWTP
10	1.0	Sandy WWTP
	1.0	Pleasant Grove WWTP
11	0.5	Utah Div. of Wildlife (Scott Ave. Fish Hatchery),UT 196
	0.5	Utah Power & Light, UT 081
	0.5	Clearview Trout Farm, UT 205
	0.5	Denver & Rio Grande RR, UT 180

Priority Number	Priority Value	Discharger
12	0.0	Key Industries, UT 227
	0.0	Midway WWTP
	0.0	Springdell WWTP
	0.0	Utah State Prison WWTP

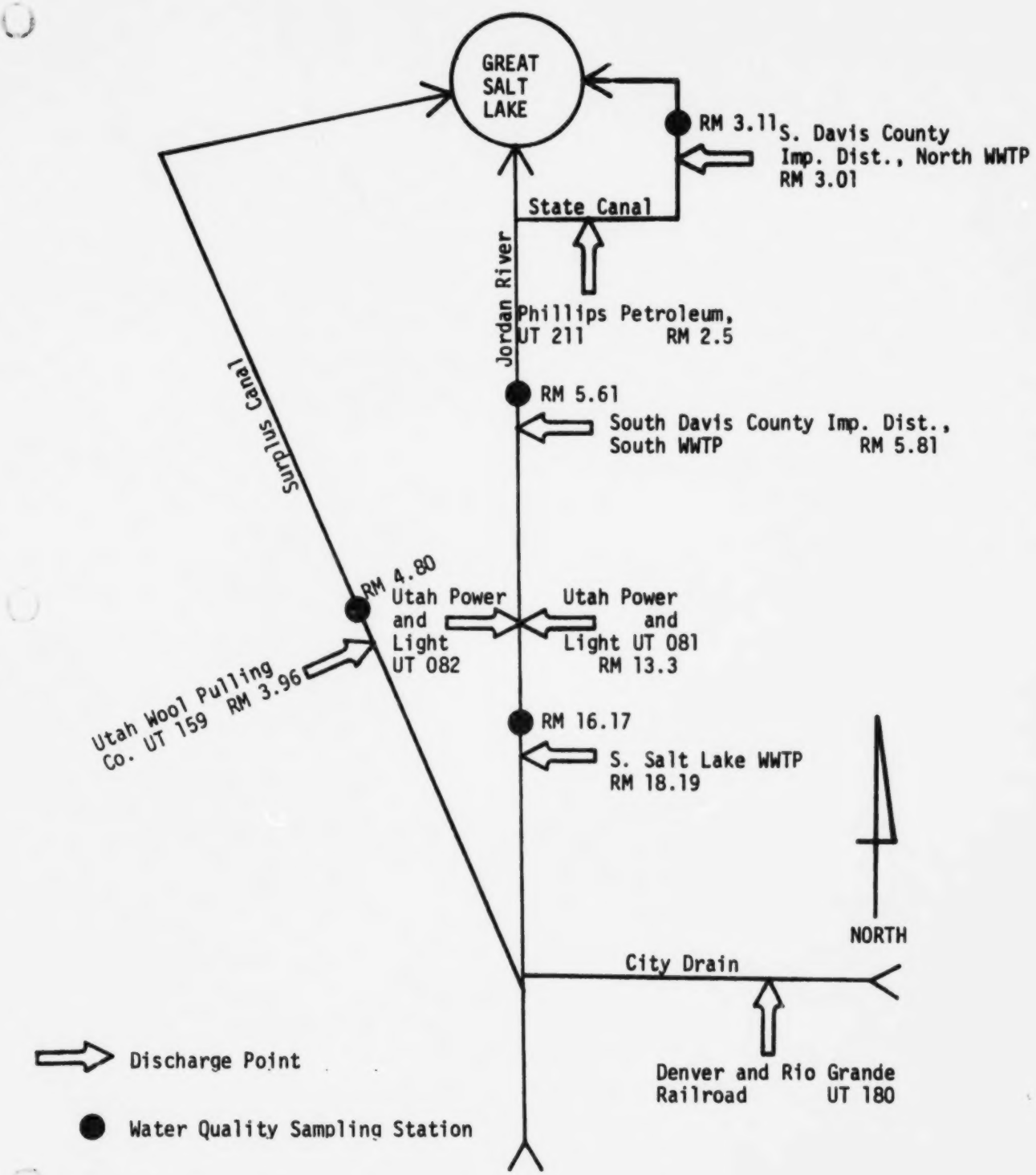
PRIORITY SYSTEM

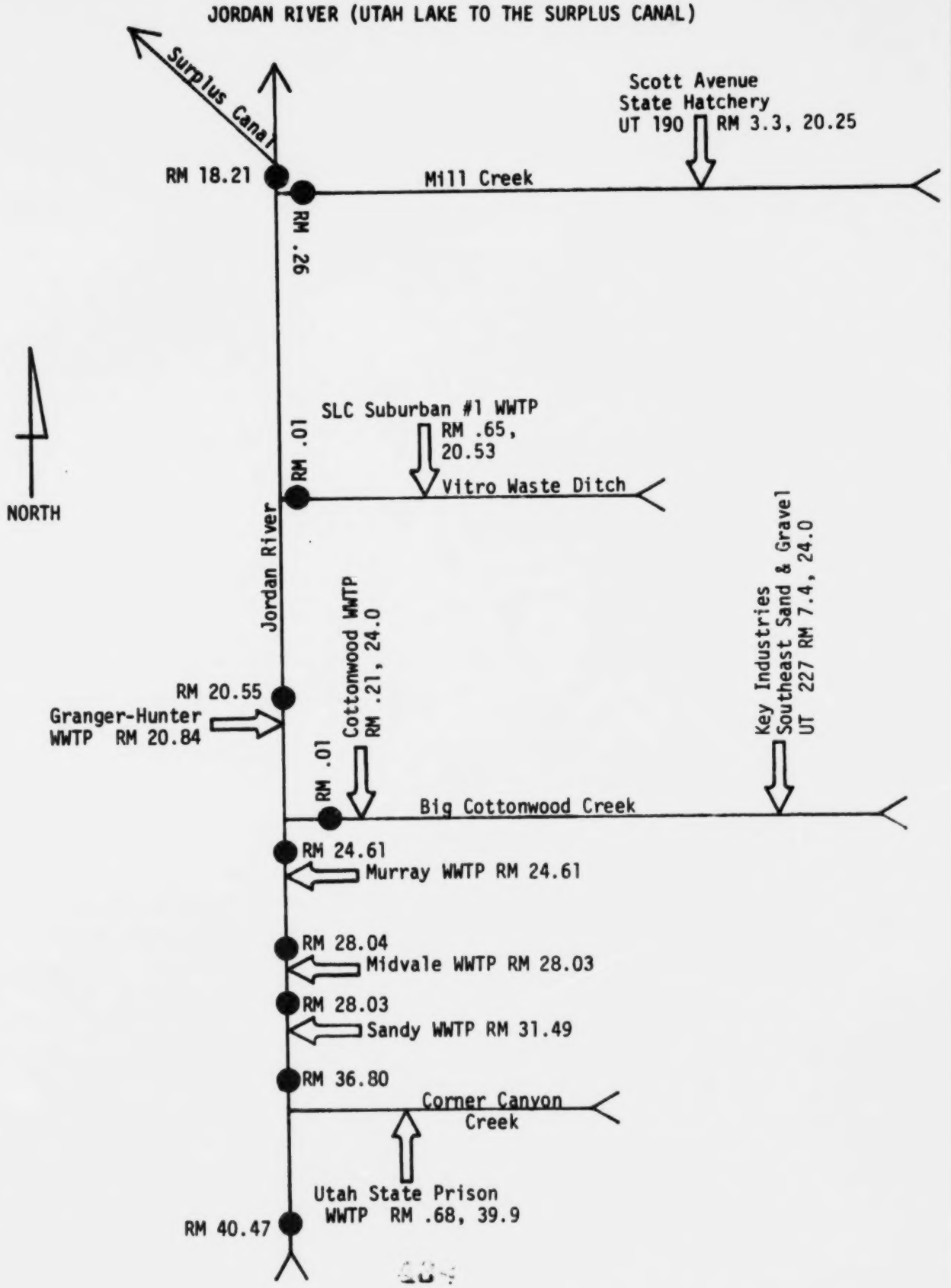
Priority Value	% of Total Basin Discharge	BOD (lbs)
0		<50
0.5	≤1% or suspect	>50
1	1%	>200
3	5%	>1000
5	10%	>2000

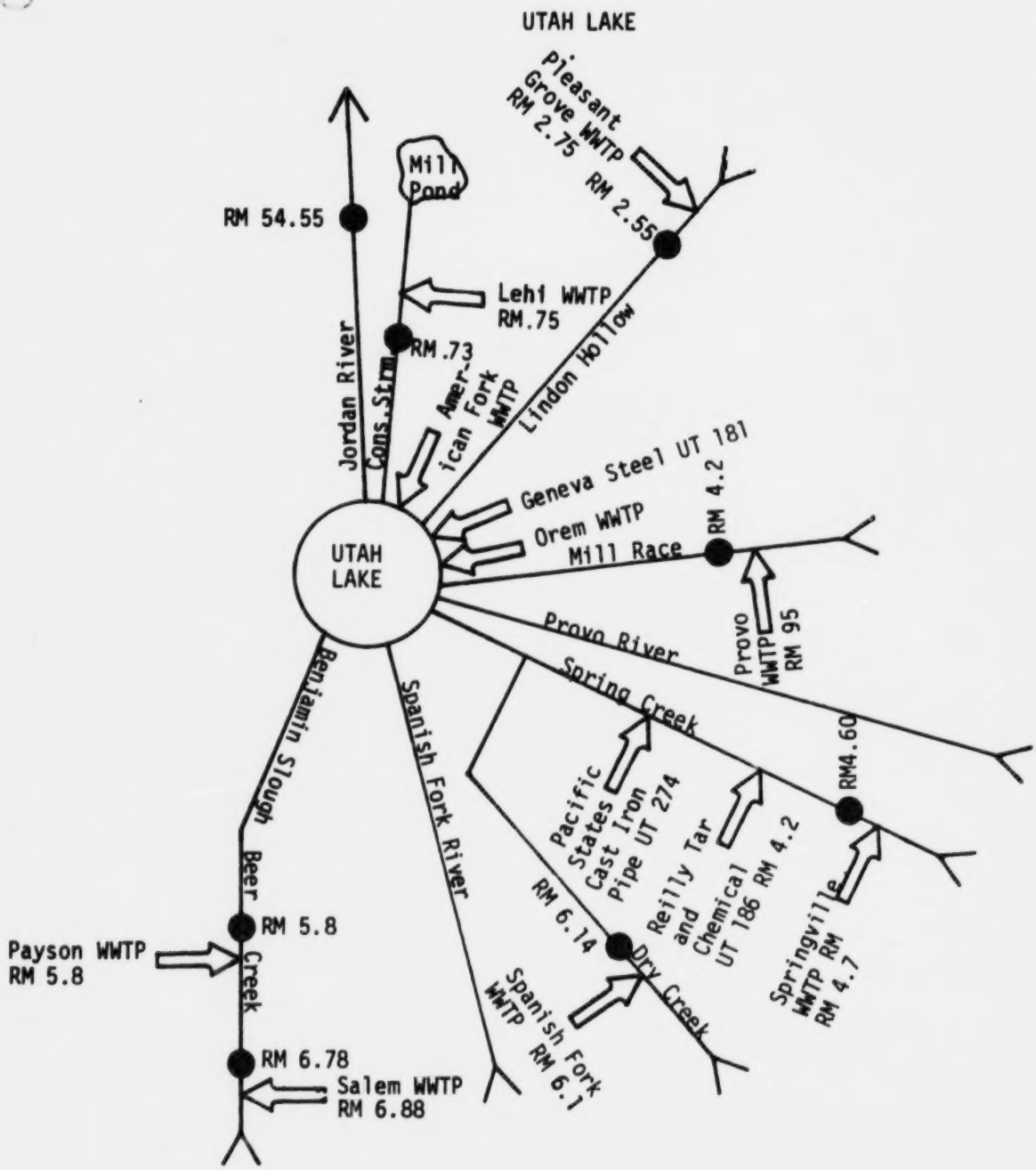
Priority Value	Total Coli.	Grease & Oil (lbs)	Toxic Metals (lbs)
.5	>20,000 or susp.	Suspect	
1	>75,000	≥24	Suspect
3	>250,000	>50	>250
5	>1,000,000	>100	>500

Priority Value	Ave. Temperature (° above 80°F)
.5	>1
1	>5
3	>10
5	>30

JORDAN RIVER FROM 2100 SOUTH TO THE GREAT SALT LAKE


GREAT SALT LAKE
RM 3.11
S. Davis County Imp. Dist., North WWTP RM 3.01
State Canal
Jordan River
Phillips Petroleum, UT 211 RM 2.5
RM 5.61
South Davis County Imp. Dist., South WWTP RM 5.81
Surplus Canal
RM 4.80
Utah Power and Light UT 082
Utah Power and Light UT 081 RM 13.3
Utah Wool Pulling Co. UT 159 RM 3.96
RM 16.17
S. Salt Lake WWTP RM 18.19
NORTH
City Drain
Denver and Rio Grande Railroad UT 180
Discharge Point
Water Quality Sampling Station
Flow Direction
RM River Mile


JORDAN RIVER (UTAH LAKE TO THE SURPLUS CANAL)
Surplus Canal
Scott Avenue
State Hatchery
UT 190
RM 3.3, 20.25
RM 18.21
Mill Creek
RM .26
NORTH
SLC Suburban #1 WWTP
RM .65,
20.53
RM .01
Vitro Waste Ditch
Jordan River
Key Industries
Southeast Sand & Gravel
UT 227 RM 7.4, 24.0
Cottonwood WWTP
RM .21, 24.0
RM 20.55
Granger-Hunter
WWTP RM 20.84
RM .01
Big Cottonwood Creek
RM 24.61
Murray WWTP RM 24.61
RM 28.04
Midvale WWTP RM 28.03
RM 28.03
Sandy WWTP RM 31.49
RM 36.80
Corner Canyon
Creek
Utah State Prison
WWTP RM .68, 39.9
RM 40.47


UTAH LAKE
Pleasant Grove WWTP RM 2.75
RM 2.55
Mill Pond
RM 54.55
Lehi WWTP RM.75
RM .73
Jordan River Cons. Strm
American Fork WWTP
Lindon Hollow
Geneva Steel UT 181
Orem WWTP
Mill Race
RM 4.2
UTAH LAKE
Provo River
Provo WWTP RM 95
Benjamin Slough
Spanish Fork River
Spring Creek
Pacific States Cast Iron Pipe UT 274
Reilly Tar and Chemical UT 186 RM 4.2
RM4.60
Springville WWTP RM 4.7
RM 6.14
Dry Creek
Spanish Fork WWTP RM 6.1
Beer Creek
RM 5.8
Payson WWTP RM 5.8
RM 6.78
Salem WWTP RM 6.88

PROVO RIVER

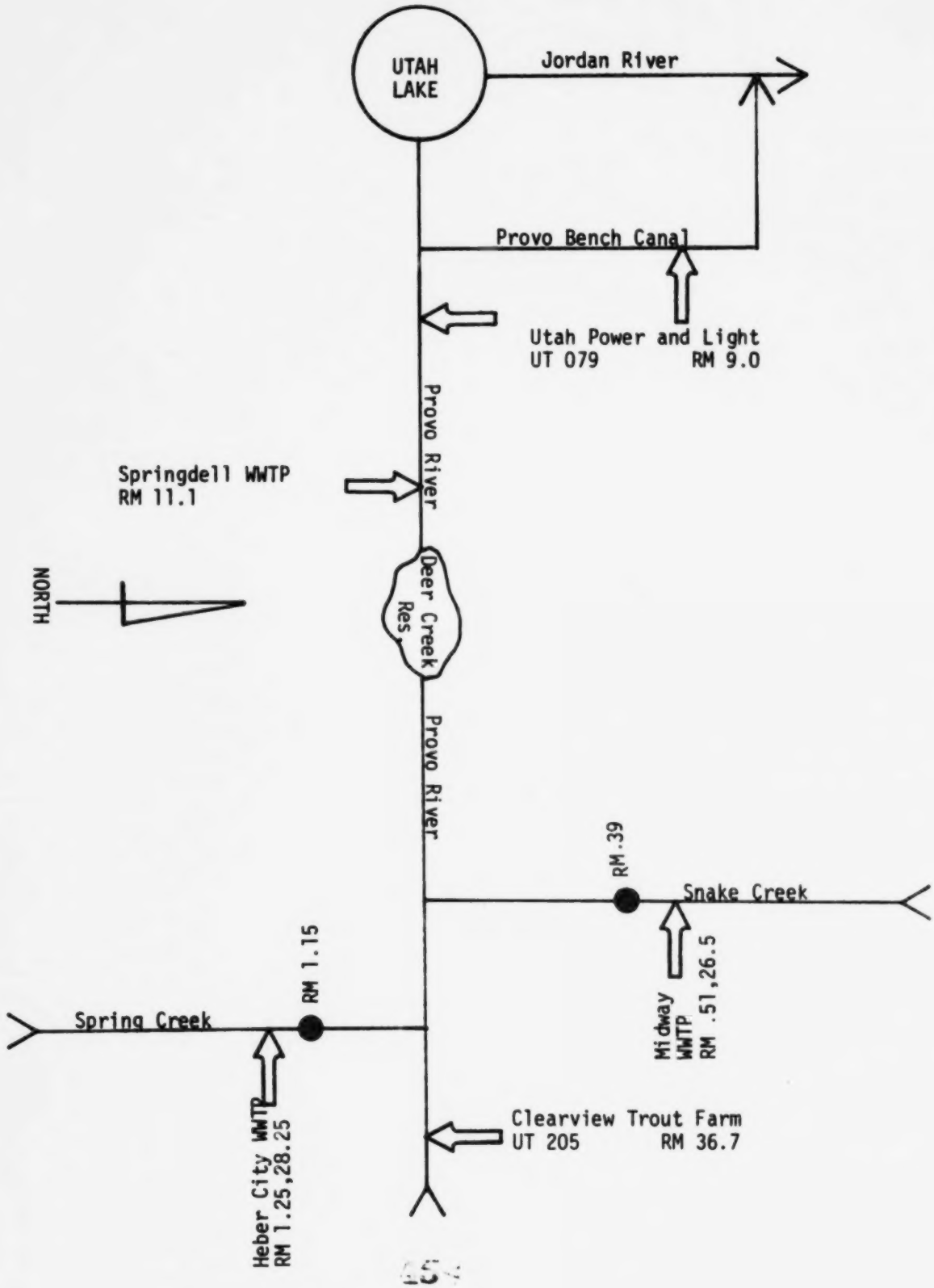

UTAH LAKE
Jordan River
Provo Bench Canal
Utah Power and Light
UT 079
RM 9.0
Provo River
Springdell WWTP
RM 11.1
NORTH
Deer Creek Res.
Provo River
RM.39
Snake Creek
Midway WWTP
RM .51,26.5
RM 1.15
Spring Creek
Heber City WWTP
RM 1.25,28.25
Clearview Trout Farm
UT 205
RM 36.7

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TABLE I - MAJOR POLLUTION SOURCES & EFFLUENT LOADS

UTAH LAKE-JORDAN RIVER BASIN--DOMESTIC

Index: River Mile / Name of Discharger (receiving waters)	Receiving Stream Reaction Possible	Flow MGD	pH	Max Temp °F Average	BOD_5	TDS	SS	NH_3-N NO_3-N	Mg/l Total PO_4 Lb/Day	(Fecal) (Total) Coli Bact. 100 ml	Grease & Oil	Toxic Metals	Other Toxic
Urban Sources & R.M. Receiving Stream													
RM 10.5 Provo City (Spring Creek)	Questionable	2.26	7.4	60 / 53	480	No Data	No Data	No Data	20.2 / 395	3300 / 33,000	0	0	
RM 10.5 Provo WWTP (Provo River)	Questionable	.17	7.7	64 / 50	10	No Data	No Data	No Data	9.7 / 14	1564 / 6300	0	0	0
RM 10.5 Spring Dell WWTP (Provo River)	Questionable	.01	No data		10	No Data	No Data	No Data	No Data / No data	No Data / No data	No data	No data	No data
RM 3.40 Provo WWTP (Mill Race to Utah Lake)	Yes	11.9	7.7	67 / 59	2570	No Data	No Data	No Data	9.4 / 932	43,375 / 643,000	0	0	0
RM 1.60 American Fork WWTP (Utah Lake)	Yes	1.09	7.5	67 / 59	374	No Data	No Data	No Data	15.8 / 1454	406,000 / 1,260,775	0	0	0
RM 4.70 Springville WWTP (Spring Creek)	Questionable	2.2	7.8	63 / 54	261	No Data	No Data	No Data		31,700 / 110,000	0	0	0

TABLE X - MAJOR POLLUTION SOURCES & EFFLUENT LOADS

UTAH LAKE-JORDAN RIVER BASIN--DOMESTIC

Stream Reach or Data Parameter	Discharge Permitted	Flow MGD	pH	Max Temp °F / Minimum	BOD5	TSS	COD	Oil & Grease	Min/Max Ammonia mg/l / Summer / Winter	Min/Max Phosphorus (as P) lbs/day / Summer / Winter	Dissolved O2 mg/l	Fecal Coliform	Total Nitrate
UM 2.5 to 0.00 Utah Valley WWTP Utah Lake-Provo River Delta	Yes	10.4	7.3	63 / 52	23	No Data	No Data	No Data	13.1 / 15	17,000 / 81,200	0	0	0
UM 2.75 Spanish Fork WWTP Dry & Irrig.-Spring Crk	Questionable	2.1	7.8	65 / 54	429	No Data	No Data	No Data	11.0 / 102	2300 / 22,400	0	0	0
UM 2.75 Provo WWTP Utah Lake)	Yes	2.3	7.5	70 / 60	526	No Data	No Data	No Data	18.3 /	10,200 / 63,000	0	0	0
UM 2.75 Lehi WWTP Utah Lake)	Yes	0.5	7.6	66 / 57	105	No Data	No Data	No Data	13.4 / 56	39,000 / 93,000	0	0	0
UM 4.50 Payson WWTP / Dry Creek-Benjamin Slough	Yes	.55	7.7	61 / 53	71	No Data	No Data	No Data	15.4 / 72	9600 / 190,000	0	0	0
UM 2.75 Pleasant Grove WWTP Mosquite-Lincoln Hollow	Yes	1.08	7.7	60 / 54	198	No Data	No Data	No Data	9.9 / 91	16,000 / 61,000	0	0	0

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TABLE I - MAJOR POLLUTION SOURCES & EFFLUENT LOADS

UTAH LAKE-JORDAN RIVER BASIN--DOMESTIC

Location / Source	Receiving Water Classification Possible	Flow MGD	pH	Temp °C Summer / Winter	BOD_5	NH3	NO3	Phosphate PO_4-P	mg/l Annual Ave. lbs/day	(Annual) (Design) Max. 100 lbs/day	Chlorine Used	Solids Handling	Power Source	Operators
PM 20.54 Central Valley WWTP (Jordan River)	Yes	5.0	7.6	62 / 53	2000	No Data	No Data	No Data	14.8 / 1480	No Data / 21,000	0	0	0	3 / 3
PM 21.61 Salt Lake Co. WWTP (Big Cottonwood Creek)	Yes	4.1	7.3	59 / 53	40 mg/l 2015	No Data	No Data	No Data	20.6 / 1383	No Data / 1,305,437	0	0	0	10 / 1
PM 24.65 Murray WWTP (Jordan River)	Yes	2.7	7.4	60 / 55	1006	No Data	No Data	No Data	23.3 /	No Data /	0	0	0	1.5 / 6
PM 27.03 Salt Lake City WWTP Sub. #1 (Jordan River)	Yes	11.0	7.7	60 / 52	1849	No Data	No Data	No Data	17.5 / 1607	No Data / 10,400	0	0	0	10 / 7
PM 28.03 Tri-Community WWTP Midvale-Jordan River)	Yes	3.8	7.6	60 / 51	691	No Data	No Data	No Data	13.0 / 435	No Data / 53,100	0	0	0	1.5 / 9
PM 31.49 Sandy WWTP (Jordan River)	Yes	1.63	7.4	62 / 51	500	No Data	No Data	No Data	35.0 mg/l / 475	No Data / 16,712	0	0	0	0 / 10

TABLE I - MAJOR POLLUTION SOURCES & EFFLUENT LOADS

UTAH LAKE-JORDAN RIVER BASIN--DOMESTIC

MAJOR SOURCES & R.M.	DISCHARGE-ELIMINATION EQUIPMENT	FLOW MGD	PH	MAX BOD5 Average	BOD5	TSS	FOG	NH3-N	Mg/l Phos. PO4 Lb/Day	(FECAL) (TOTAL) COLIF. /100 ml	GREASE & OIL	TOXIC METALS	(OTHER TOXIC)	
RM 38.91 Utah State Prison WWTP (Corner Canyon Creek)	Yes		7.5	58 / 50	17 mg/l 20#/day	No Data	No Data	No Data	3.0	No Data / 480,000	0	0	0	0 / 10
RM 5.81 S. Davis Co. Sewer Impr.Dist. (Jordan River)	Questionable	1.25	7.6	60 / 55	269	No Data	No Data	No Data	25.6 / 266	No Data / 4,200	0	0	0	1.5 / 8
RM 12.10 S. Salt Lake WWTP (Jordan River)	Yes	2.64	7.9	56 / 52	318	No Data	No Data	No Data	8.5 / 186	No Data / 4,200	0	0	0	1.5 / 8
RM 8.82 S.Davis Co.Sewer Impr.Dist. (State Canal) WWTP	Questionable	3.97	7.6	60 / 54	18.7 mg/l 613	No Data	No Data	No Data	17.5 / 581	No Data / 39,000	0	0	0	1.5 / 8
				/					/	/				
				/					/	/				

. COMP ATION SHEET

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LOAD

Dischargers	Flow (mgd)	Allowed load (lbs/day)	FY93 Commits														Projected Load (lbs/day)	River mile	TOTAL Coliform per 100ml	Loads at 0.1 DO & 5 ppb	Total metals all bay	Temp 4° above ambient about 150
			93	94	95	96	93	94	95	96	93	94	95	96	93	94	95	96						
Pleasant Grove WWTP	1.05	153	0	0	0	0	0	0	46	235	20	42	66	82	0	0	46	235	173	195	223	235	198	2.75	61,000			
Lehi WWTP	.5	84	0	24	24	29	0	0	0	109	11	23	36	50	0	21	24	134	93	107	120	134	105	.75	[illegible]			
American Fork WWTP	1.09	328	0	81	90	100	0	0	0	401	37	78	123	193	0	81	90	501	265	436	481	534	379	1.65	1,269,716			
U.S. Steel UT 181	20.5	324	0	0	0	0	0	0	0	481	118	130	143	159	0	0	0	481	442	454	467	481	1182	—	No data	135	59	
Orem WWTP	2.3	430	0	0	0	0	0	0	121	677	53	111	174	244	0	0	121	674	483	541	604	674	526	.24	63,900			
Provo WWTP	11.9	2072	0	523	585	654	0	0	0	2444	240	513	559	696	0	523	585	2268	2332	2405	2496	[illegible]	2570	3.40	963,000			
Springville WWTP	2.2	169	0	0	0	0	0	0	51	290	26	54	86	121	0	0	51	290	195	223	[illegible]	290	261	1.90	110,000			
Reilly for Sardine UT166	.26	0	0	0	0	0	0	0	0	0	insign. discharge				0	0	0	0	0	0	0	0	4	4.2	No data			
Pacific States Cast Iron Pipe UT 249	.40	0	0	0	0	0	0	0	0	0	insign. discharge				0	0	0	0	0	0	0	0	7	4.0	2250			
Spanish Fork WWTP	2.1	341	0	103	114	126	0	0	0	502	43	90	142	199	0	103	114	628	492	519	571	628	429	2.50	27,600			
Salem WWTP	.14	225	0	0	0	0	0	0	60	333	25	53	76	108	0	0	60	333	243	278	320	333	231	6.39	81,000			
Payson WWTP	.55	48	0	0	0	0	0	0	14	82	7	15	24	34	0	0	14	82	55	63	72	82	71		190,000			
TOTAL	43.02	4,648	0	122	813	909	0	0	292	5197	598	1,259	1,924	2564	0	928	1185	6,622	4,830	5196	5946	6626	5958			135		
Sandy WWTP	1.63	462	0	128	141	155	0	0	0	621	53	111	173	243	0	128	141	776	583	641	705	776	530	31.49	16,912			
Utah State Road Camp	.06	0	M	0	0	0	0	0	0	0	2	0	0	0	M	0	0	0	2	0	0	0	M	58.91	445,000			
TCI-COMMUNITY WWTP	3.8	732	0	184	205	229	0	0	0	917	89	187	265	449	0	184	205	1146	821	919	1039	1146	891	28.03	53,100			
Murray WWTP	2.7	958	211	295	264	289	0	0	0	1159	106	223	352	449	211	235	264	1447	1059	436	345	1447	1066	27.05	32,500			
Key Industries UT227	.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.4	No data			
SLC Cottonwood WWTP	4.1	1843	0	453	512	565	0	0	0	2523	201	420	567	925	0	453	512	2829	[illegible]	[illegible]	[illegible]	[illegible]	2015	21	16,912			
Governor-Hunter WWTP	5.0	1881	0	464	514	590	0	0	0	2281	209	434	692	978	0	464	514	2351	[illegible]	[illegible]	[illegible]	[illegible]	2390	20.84	1,945,250			
Salt Lake Sub #1 WWTP	11.0	1,269	0	0	0	0	0	0	400	2249	185	388	642	850	0	0	400	2249	1594	1997	[illegible]	[illegible]	1849	20.3	10,400			
Utah Dept of Wildlife UT 190	1.23	0	0	0	0	0	0	0	0	0	insign. discharge				0	0	0	0	0	0	0	0	3	2.3	≤100			
TOTAL	29.82	7260	228	1464	1622	1998	0	0	400	9994	845	1971	2991	3914	228	1464	2323	11245	[illegible]	[illegible]	[illegible]	[illegible]	8461					
Denver and Rio Grande RR UT 180	.03	no data	11	11	11	11	0	0	0	0	0	0	0	0	11	11	11	11	no data				no data	18.20	7500	6		
South Salt Lake WWTP	2.64	208	0	0	0	0	0	0	62	354	31	66	104	146	0	0	62	354	237	297	312	354	318	18.19	4900			
Utah Power and Light UT. 022	.6	0	0	0	0	0	0	0	0	0	insign. discharge				0	0	0	0	0	0	0	0	2.9	123	No data			180
Utah Power and Light UT. 081	27	0	0	0	0	0	0	0	0	0	insign. discharge				0	0	0	0	0	0	0	0	insig.	13.3	no data			
Utah Wool Pulling Company UT	.35	2465	73	0	0	0	0	3252	0	0	217	0	0	0	73	3252	0	0	3252	3252	0	0	2990	3.90	No data			
South Davis County SID, South WWTP	1.25	217	0	0	0	0	0	0	15	343	27	57	90	126	0	0	15	343	244	294	307	343	263	5.81	4,000			
Phillips Petro. UT 211	1.25	209	205	205	205	205	0	0	0	0	25	53	83	117	[illegible]	[illegible]	[illegible]	225	229	257	269	321	256	2.5	2100	160		
South Davis County SID, North WWTP	3.97	752	0	0	0	0	0	0	131	739	62	109	203	285	0	0	131	739	514	582	656	739	618	2.93	39,000			
TOTAL	10.36	4032	349	276	296	296	0	3252	208	1434	492	305	480	674	349	3538	484	1910	4498	[illegible]	1562	1955	4460			166		
Heber City WWTP	2.29	384	0	97	108	121	0	0	0	486	42	101	159	223	0	97	108	607	432	485	543	607	480	28.25	33,000			
Utah Power and Light UT 079	29.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9.0	No data			155
Clear View Trout Farm UT 205	2.85	0	0	0	0	0	0	0	0	0	insign. discharge				0	0	0	0	0	0	0	0	100	24.7	1500			
Spring Hill	.01	0	0	0	0	0	0	0	0	0	"				0	0	0	0	0	0	0	0	insig.	11.1	No data			
Midway WWTP	.17	3	0	0	0	0	0	0	5	7	1	2	3	4	0	0	5	7	4	5	6	7	10	24.5	8300			
TOTAL	33.02	387	0	97	108	121	0	0	5	493	43	103	162	227	0	97	113	614	436	490	549	614	590					
BASIN TOTAL	116.22	16,331	577	2565	2820	3102	0	3252	905	17,293	1934	3393	5157	7159	577	5687	5148	20,295	17997	19624	18228	20949	19,969			301		

SECTION E

AMBIENT WATER QUALITY STATUS

PRIORITY BASIN ACCOMPLISHMENTS: ANNUAL WQ ACCOMPLISHMENTS REPORT

REGION VIII CALENDAR YEAR 1972 DATE SUBMITTED September 1972

PREPARED BY Max H. Dodson (Name) Water Resources Planner (Title) TEL. 837-4963

APPROVED BY: (Name) (Title) (Initials)

FORM V

AREA	POPULATION	RIVER MILES OR AREA EQUIVALENT FOR LAKES, ESTUARIES, ETC.			
		MEETS STANDARDS (MILES AND/OR AREA)	NOT AT STANDARDS (MILES AND/OR AREA)	BASIN TOTALS (MILES AND/OR AREA)	
				RIVER MILES	AREA IN
TOTALS ALL PRIORITY BASINS IN REGION					
BASIN					
BASIN Utah Lake-Jordan River	1970 704,282	740 miles	200 miles (Utah 150 Sq. Mi. Lake)	940 miles	150 sq. miles (Utah Lake)
BASIN					
					# OF

TABLE II - AMBIENT WATER QUALITY AT NEAREST DOWNSTREAM MONITORING STATION

WORST POSSIBLE FOR 1971

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(Violations of 'C' classifications.)	BASIC PARAMETERS - MG/L UNLESS INDICATED												
	FLOW cfs	PH	TEMP °F	BOD_5 mg/l	TDS	TSS	NH_3-N ORG-N	TOTAL P (PO_4)	(FECAL) (TOTAL) BACT.	GREASE & OIL	TOXIC METALS	OTHER TOXICS	SUSP. SOLIDS FLOW
Mormon Sources and L.M. POINT (headwaters)									All violate 'C' classification except #18 & 1				
1. Snake Creek below Midway WWTP Outfall RM 26.50, .39	No Data	7.8	62.0	3.9	No Data	No Data	No Data	0	28,000 / 43,000	No Data	0	0	No Data
2. Spring Creek below Heber City WWTP RM 28.25, 1.15	No Data / No Data	7.8	59.0	(65.0)	No Data	No Data	No Data	3.0	430,000 / 930,000	No Data	0	0	"
3. Consolidates Streams below Lehi WWTP RM 73	No Data	8.25	65.0	(9.8)	No Data	No Data	No Data	0	15,000 / 43,000	No Data	0	0	"
4. Lindol Hollow below Pleasant Grove WWTP RM 2.55	No Data	8.0	61.0	(9.1)	No Data	No Data	No Data	0	4300 / 23,000	No Data	0	0	"
5. Mill Race Stream below Provo WWTP RM 4.2	No Data	8.2	68.0	(35)	No Data	No Data	No Data	0	75,000 / 930,000	No Data	0	0	"
6. Dry Creek below Spanish Fork WWTP RM 6.14	No Data	8.0	65.0	(14.0)	No Data	No Data	No Data	0	4300 / 93,000	No Data	0	0	"
7. Spring Creek below Springville WWTP RM 4.6	No Data	7.7	49	(26.33)	No Data	No Data	No Data	No Data	No. Data / 1,604,002	No Data	0	0	"

TABLE II - AMBIENT WATER QUALITY AT NEAREST DOWNSTREAM MONITORING STATION

WORST POSSIBLE FOR 1971

	BASIS FOR LIMITS - MG/L UNLESS APPLICABLE												
	FLOW cfs	PH	TEMP °F	BOD_5 mg/l	TDS	TSS	NH_3-N ORG-N	TOTAL P (PO_4)	(TOTAL) (TOTAL) FECAL	GREASE & OIL	TOXIC METALS	OTHER TOXICS	SEAS. BASE FLOW
White Water Springs and R.M.													
POINT POINT (Headwaters)													
8. Beer Creek below Payson WWTP RM 5.8	No Data	8.4	70.0	4.3	No Data	No Data	No Data	0	9,300 / 93,000	No Data	0	0	No Data
9. Beer Creek below Salem WWTP RM 5.78	No Data	8.3	68.0	12.8	No Data	No Data	No Data	9.4	93,000 / 150,000	No Data	0	0	No Data
10. Jordan River below SC Pump Plant RM 54.55	601	8.5	40	6.7	No Data	No Data	No Data	0	No Data / 2,400	No Data	0	0	No Data
11. Jordan River at Bluffdale Rd. RM 40.47	No Data	8.4	4.2	5.5	No Data	No Data	No Data	.1	No Data / 1,100	No Data	0	0	No Data
12. Jordan River at Draper-Riverton Rd. RM 36.8	No Data	8.25	48	5.6	No Data	No Data	No Data	0	No Data / 24,000	No Data	0	0	No Data
13. Jordan River below Sandy WWTP RM 31.33	No Data	8.2	48	7.3	No Data	No Data	No Data	0	No Data / 24,000	No Data	0	0	No Data
14. Receiving Stream below Midvale WWTP RM 28.03 - 01	No Data	7.9	50	40.0	No Data	No Data	No Data	0	No Data / 46,000	No Data	0	0	No Data

TABLE II - AMBIENT WATER QUALITY AT NEAREST DOWNSTREAM MONITORING STATION

WORST POSSIBLE FOR 1971

	BASIC PARAMETERS - MG/L UNLESS APPLICABLE												
	FLOW cfs	PH	TEMP °F	BOD_5 mg/l	TDS	TSS	NH_3-N ORG-N	TOTAL P (PO_4)	(FECAL) (TOTAL) BACT.	GREASE & OIL	TOXIC METALS	OTHER TOXICS	STDS. BASE FLOW
POINT Water Sources and R.M.													
FINAL POINT (headwaters)													
15. Jordan River below Murray WWTP RM 24.61	No Data	8.1	54	22.0	No Data	No Data	No Data	4.8	No Data / 240,000	No Data	0	0	No Data
16. Big Cottonwood Creek below SL Cottonwood WWTP RM 24.0, .01	No Data	7.8	66.0	6.2	No Data	No Data	No Data	0	No Data / 23,000	No Data	0	0	No Data
17. Jordan below Granger-Hunter WWTP RM 20.55	No Data	8.1	60.0	7.5	No Data	No Data	No Data	[illegible]	No Data / 750,000	No Data	0	0	No Data
18. WITRO Waste Ditch above Jordan River RM 20.53, .01	No Data	7.7	50	21.0	No Data	No Data	No Data	26.0	No Data / 11,000	No Data	0	0	No Data
19. Mill Creek at 900 West RM 20.25, .26	No Data	8.3	42.0	3.9	No Data	No Data	No Data	0	No Data / 110,000	No Data	0	0	No Data
20. Jordan River at 2100 S. RM 18.21	310	8.1	48.0	9.2	No Data	No Data	No Data	3.5	No Data / 2,400,000	No Data	0	0	No Data
21. Jordan River below S. Salt Lake WWTP RM 16.7	150	8.2	48.0	13.6	No Data	No Data	No Data	0	No Data / 2,400,000	No Data	0	0	No Data

TABLE II - AMBIENT WATER QUALITY AT NEAREST DOWNSTREAM MONITORING STATION

WORST POSSIBLE FOR 1971

	BASIC PARAMETERS - MG/L UNLESS APPLICABLE												
	FLOW cfs	PH	TEMP °F	BOD_5 mg/l	TDS	TSS	NH_3-N ORG-N	TOTAL P (PO_4)	(FECAL) (TOTAL) BACT.	GREASE & OIL	TOXIC METALS	OTHER TOXICS	STDS. BASE FLOW
Waste Water Sources and R.M.													
POINT POINT (headwaters)													
22. Surplus Canal below Wool Pull RM 4.80	160	8.3	49	25	No Data	No Data	No Data	0	No Data / 2,400,000	No Data	0	0	No Data
23. Jordan River near 17th North RM 8.81	No Data	8.2	48.0	11.4	No Data	No Data	No Data	0	No Data / 930,000	No Data	0	0	No Data
24. Jordan River below South Davis WWTP RM 5.61	173	8.0	48.0	10.3	No Data	No Data	No Data	0	No Data / 1,100,000	No Data	0	0	No Data
25. State Canal below North Plant, South Davis Co. RM 283,3.11	No Data	7.9	No Data	7.1	No Data	No Data	No Data	0	No Data / 24,000	No Data	0	0	No Data

SECTION F

TACTICAL SOLUTION

TABLE III - INTEGRATED BASIN TACTICAL SOLUTION AND RESOURCE REQUIREMENTS

I. OVERALL BASIN SUMMARY

SITUATION ANALYSIS	RECOMMENDED ACTIONS BY SUB TASK & ORGANIZATION RESPONSIBILITY	DATES INITIATION	DATES COMPLETION	PROGRAM ELEMENT	MANPOWER REQUIRED (PROF - MAN - MOS) FY 73	FY 74	FY 75	FY 76
I. The Utah Lake-Jordan River basin is a semi-arid interior drainage basin located entirely within the State of Utah. Prior to FY 73 this intra-state basin had no assigned water quality standards. However, on June 23, 1972, the State of Utah Water Pollution Control Committee and the Utah State Board of Health adopted classifications for all unclassified waters in the State. A 'C' classification now applies to all waters in the Utah - Lake-Jordan River basin. The State has assigned an implementation date of December 31, 1978. The major parameters for these instream standards are. BOD5 - 5 mg/l, DO - 5.5 (6.0 for designated cold water fishery), total coliform - 5,000/100 ml., pH - 6.5 - 8.5. All waters in the basin are assigned the 'CC' (cold water fishery) classification with the exception of Utah Lake and the Jordan River from Utah Lake to the Utah County line. These exceptions are assigned the classification of CW (warm water fishery). Most of the usable water in the basin originates in the Wasatch Mountains on the eastern edge of the basin and flows into the Salt Lake Valley and Utah Lake Valley. As the water flows through the canyons it is subject to degradation by agricultural and recreational activities. Intensive recreational/ second home development is progressing rapidly in these canyon lands and is	1. Monitor development of 3(c) Basin Plan. Emphasize regionalization potential. Provide planning assistance if requested. (Planning Branch)	1 DEC 71	1 JUL 74	2B3149	5.5	6.0	0	0
	A. Monitor development of 3(c) interim plan. Insure that projects on one-year needs list are included with consideration given to regionalization and water quality standards. Support recommendations of approved plan.	1 MAY 73	1 DEC 73	2B3149	1.0	1.0	0	0
	B. Support recommendations of 3(c) fully developed basin plan. Coordinate continuing planning program. Provide updating assistance when required.	1 DEC 73	1 DEC 74	2B3149	0	2.55	2.55	0
	2. Coordinate (with 3[c]) investigation on non-point source pollution: Included should be a water budget study. (Planning Branch, Surveillance Branch)	1 JUL 7	1 JUL 73	2B3149 2B2148	.2 .1	.2 .1	0	0
	3. Conduct O&M surveys on remaining wastewater treatment plants. (O&M Section, Manpower and Development Branch)	1 OCT 72	1 DEC 74	2B8163 2B7160	4.0 .24	4.5 .24	.24	0 0
	A. Complement O&M surveys with water quality studies. (Technical Support Branch)	1 OCT 72	1 DEC 74	2B2148	.25	.25	.25	0
	4. Influence State to promote improved O&M studies on all treatment works in basin. (O&M Section)	1 JAN 72	30 JUN 76	2B8163	.05	.05	.05	.05
	5. Secure and review commitments* in RAPP applications for best practicable treatment or maintenance of stream standards, whichever higher. (Permits Branch)	1 JUL 72	1 JUL 74	3B2124	27.0	32.0	0	0

*These actions will be changed to permit actions immediately under the new legislation as soon as guidelines are available.

I. OVERALL BASIN SUMMARY - Continued

SITUATION ANALYSIS	RECOMMENDED ACTIONS BY SUB TASK & ORGANIZATION RESPONSIBILITY	DATES INITIATION	DATES COMPLETION	PROGRAM ELEMENT	MANPOWER REQUIRED (PROF - MAN - MOS) FY 73	FY 74	FY 75	FY 76
subject of a Salt Lake County initiated master development plan. Water entering the valleys is subject to chemical and biological degradation from diverse non-point sources mostly in the form of agricultural return flow and from several point sources. A total of 34 major dischargers are known to discharge wastes in the basin. Twenty-two of these dischargers are domestic wastewater treatment plants serving an estimated population of 650,000. Twelve of the dischargers are industrial and have all applied for a Refuse Act Permit. Specific problems relating to these point sources of pollution are organic material and bacteria being discharged by overloaded and poorly operated municipal wastewater treatment plants. This specific problem is compounded by ever-increasing pressures exerted by individual urban population growth rates from 3 to 11% per year. Other specific problems are return flow from agricultural irrigation and residential gardening operations, storm inlets discharging wastes from unspecified areas and the discharge of industrial wastes containing oil and grease, toxic metals and other contaminantes.	6. Request from industries and/or state and aid in the establishment of water quality monitoring programs for all industrial dischargers not presently being monitored. (Permits Branch)	1 JUL 72	1 JUL 73	3B2124	15.0	19.0	0.3	0.3
	7. Conduct operator training program for wastewater treatment facilities as needed. (Manpower Branch)	1 JUL 72	30 JUN 76	2B7158	2.04	2.04	1	1
	8. Influence State to obtain mandatory waste treatment operator certification. (Manpower Development Branch)	1 JUL 72	1 JUL 73	3B7161	.22	0	0	0
	9. In-house manpower planning--employment and training projection (WWT operators). (Manpower Development Branch)	1 JUL 72	30 JUN 76	2B7161	.50	0	0	0
	10. Monitor development of water quality math model. (Planning Branch)	1 JUL 72	30 APR 73	2B1143 2B3149	2.0 1.0	0 0	0 0	0 0
	A. Utilize math model to analyze water quality impact of alternative water quality management plans. (3(c) study)	1 MAY 73	1 DEC 73	2B1143 2B3149	1.0 0.5	2.0 1.0	0 0	0 0
	B. Continue to utilize math model in evaluating management programs.	1 DEC 73	30 JUN 76	2B1143 2B3149	0.0 0.0	1.0 1.0	1.0	0
	11. Make press releases on basin problem and clean up progress as appropriate. (Public Affairs)	1 JAN 73	1 JAN 75	5T1214	.5	.5	.5	0
	12. Carry out necessary enforcement actions in support of permit program.	1 OCT 72	30 JUN 76	3B1123	0.04	0.04	0.04	0.04

I. OVERALL BASIN SUMMARY - Continued

SITUATION ANALYSIS	RECOMMENDED ACTIONS BY SUB TASK & ORGANIZATION RESPONSIBILITY	DATES INITIATION	DATES COMPLETION	PROGRAM ELEMENT	MANPOWER REQUIRED (PROF - MAN - MOS) FY 73	FY 74	FY 75	FY 76
Active programs are now underway to alleviate or abate water quality problems in the basin. At the present time, an EPA funded 3(c) basin plan is underway (since December 1, 1971) to devise solutions to the aforementioned problems. and to determine the requirements for meeting the 'C' classification. A 3(c) interim plan outlining projects needed before the December 1, 1973 completion date will be completed prior to May 1, 1973.	12. Prepare public information materials regarding Jordan River Basin. (Public Affairs Branch)	1 JAN 73	1 JAN 74	5T1214	.22	.22	0	0
	13. Stimulate participation in public meetings regarding total basin and basin management. Coordinate and attend if required. (Planning Branch)	1 JUL 72	30 JUN 76	2B3149	1.0	1.0	1.0	1.0
	14. Review and process 20 construction grant applications. (Municipal Facilities Branch)	1 JUL 72	30 JUN 76	2B6162	5.60	5.60	6.0	6.0
	A. Administrative review of projects. (Grants Administration Branch)	1 JUL 72	30 JUN 76	2B8316	1.0	1.0	1.0	1.0
	B. Environmental Impact Review of projects. (Interagency Assistance & Eval. Branch)	1 JUL 72	30 JUN 76	2B6117	1.0	.5	1.0	1.0
	C. Planning Review of Projects. (Planning Branch)	1 JUL 72	30 JUN 76	2B3149	2.60	3.0	3.0	3.0
	D. Milestones:							
	(1) Existing wastewater treatment facilities upgraded to meet Class 'D' standards.	1 JUL 72	1 JUL 74					
	(2) 3(c) fully developed plan completed. Legislative authority is devised, if needed, for implementation of recommendations.		1 JUL 74					
	(3) Awarding of EPA Construction Grant funds for advanced waste treatment to meet 'C' standard.		30 JUN 76					
In addition to the 3(c) program, a "Parkway" proposal for the Jordan River is being actively pursued by Salt Lake City and Salt Lake County. The proposal would make several stream miles along the Jordan a recreational park.								
A third program relating to basin water quality management is an EPA funded water quality modeling project which is in a contractual stage at this time. This model will complement the 3(c) basin plan.								
An Institutional problem that confronts the EPA at this time is the State approved implementation date for the 'C' standard. This December 31, 1978 date is considered a date for the existing treatment facilities to provide advanced treatment. It will be an objective of the EPA to influence the								

I. OVERALL BASIN SUMMARY - Continued

SITUATION ANALYSIS	RECOMMENDED ACTIONS BY SUB TASK & ORGANIZATION RESPONSIBILITY	DATES INITIATION	DATES COMPLETION	PROGRAM ELEMENT	MANPOWER REQUIRED (PROF - MAN - YRS) FY 73	FY 74	FY 75	FY 76
State to achieve advanced treatment by June 30, 1976, where necessary to meet ambient standards. A second institutional problem confronting EPA is the fact that the basin is an intrastate water and hence constrains possible enforcement actions. Since this may be considered navigable waterways, tentative legislation may involve the agency in more detail and thereby provide EPA with additional tools for achieving the objectives. REGIONAL GOALS FOR THE BASIN: The State of Utah's Water Pollution Control Committee on June 23, 1972 adopted intrastate standards for water quality. The Utah Lake-Jordan River Basin and all waters therein were assigned the classification 'C'. An implementation date of December 31, 1978 was established. In addition to this standard, an interim measure was initiated whereby all dischargers must have secondary treatment (defined as Class 'D') by December 31, 1974. Although considered stringent, they were considered realistic goals. It has been generally agreed both by EPA and the State of Utah that treatment required to meet the 'C' standard must be higher than secondary and secondly, that sometime in the near future it may require an effluent limitation. Based on current water quality data, violations of the 'C' standard rarely occurs	15. Coordinate State program plan with basin management (needs list, implementation dates, standards, certifications). (Program Grants Branch)	1 JUL 72	30 JUN 76	2B4153	.48	.48	.48	.48
	16. Influence State to achieve 'C' Water Quality Standards by June 30, 1976. Would include commitments to construct advanced wastewater treatment facilities.	1 OCT 72	1 JUL 73	2B3149	.3	.3	0	0
	17. Review and assist in preparation of Environmental Impact Statement for 3(c) basin plan.	1 JAN 73	1 JAN 74	2B6117	.50	1.0	0	0
	18. Coordinate EPA basin management with Salt Lake County's "Jordan River Coordinator" and other "Parkway" advocates.	1 JUL 72	30 JUN 76	2B3149	.4	.4	.4	.4
	19. Coordinate STORET Program with 3(c) consultants and State. Process, store and retrieve data as necessary. (Surveillance Br.)	1 JUL 72	1 JUL 74	2B2146	2.04	2.04	0	0
	20. Investigate all primary sources as spill accidents occur. (Tech. Support Branch)	1 JUL 72	30 JUN 76	2B1144	1.0	1.0	1.0	1.0
	21. Coordinate hazardous spills program with Salt Lake City Mutual Aid Group (Technical Support Branch)	1 JUL 72	30 JUN 74	2B1144	.20	.20	0	0
	22. Carry out necessary enforcement actions in support of permit program (Enforcement Division)	1 OCT 72	30 JUN 76	3B1123	6.0	6.0	6.0	6.0

I. OVERALL BASIN SUMMARY - Continued

SITUATION ANALYSIS	RECOMMENDED ACTIONS BY SUB TASK & ORGANIZATION RESPONSIBILITY	DATES INITIATION	DATES COMPLETION	PROGRAM ELEMENT	MANPOWER REQUIRED (PROF - MAN - MOS) FY 73	FY 74	FY 75	FY 76
in the higher tributary areas of the Jordan River and Utah Lake. The major violations in the basin occur on the Jordan River from Bluffdale Road to the mouth, and on Utah Lake or its immediate tributaries. On the Jordan River, effluent from wastewater treatment plants consitutes a majority of the flow in certain reaches of the stream. Hence, it is generally agreed by the State Bureau of Environmental Health and the EPA that effluent from these plants should be as close to the 'C' standard as possible. Water quality problems in Utah Lake are attributed to domestic and industrial discharges, non-point sources of contaminates and to the fact that the lake is, relatively speaking, a still water body. Based on the slow turnover or discharge of Utah Lake, treatment requirements for dischargers will have to be based on at least 'C' quality effluent. The regional goals for the Utah Lake-Jordan River Basin are to meet the instream water quality standard of 'C'. It is the purpose of a currently funded Section 3(c) planning effort to determine treatment needs for each discharger, regionalization alternatives, and adequacy of water quality standards. Tentative plans outlining needs will be available by May 1, 1973. Until that time, the Accomplishment plan estimates what total reductions will be made based on the funding and construction of Advancement Treatment facilities.								

I. OVERALL BASIN SUMMARY - Continued

SITUATION ANALYSIS	RECOMMENDED ACTIONS BY SUB TASK & ORGANIZATION RESPONSIBILITY	DATES		PROGRAM ELEMENT	MANPOWER REQUIRED (PROF - MAN - MOS)			
		INITIATION	COMPLETION		FY 73	FY 74	FY 75	FY 76
Based on aforementioned considerations, required reductions that are outlined in the Accomplishment Plan are based on a requirement for a 'C' quality effluent. It must be recognized, nowever, that for some areas of the basin (to be determined by 3(c) consultant), a 'C' effluent for each discharger may not be required to meet the instream standard.								

II. PROVO RIVER

SITUATION ANALYSIS	RECOMMENDED ACTIONS BY SUB TASK & ORGANIZATION RESPONSIBILITY	DATES INITIATION	DATES COMPLETION	PROGRAM ELEMENT	MANPOWER REQUIRED (PROF - MAN - MOS) FY 73	FY 74	FY 75	FY 76
II. The Provo River is the major tributary to Utah Lake. As of July 1, 1972, there were no established water quality monitoring stations on the main stem of the Provo River. The USGS is in the process of establisning a station on the lower stem. There are three domestic wastewater treatment plants discharging into the Provo Basin and two industries. All domestic wastewater treatment plants do not meet EPA objectives and one industry does not meet objectives. The Provo River (Deer Creek Reservoir) is an integral part of the Central Utah Project, a transbasin diversion of water from the Colorado River Basin in Utah. Water quality impact of the specific proposals are relatively unknown.	(See Subtasks for entire Basin)							
	1. Review 3(c) sampling program suggesting areas where increased studies may be indicated. (Technical Support Branch)	1 JUL 72	1 DEC 73	2B2148	.2	.25	0	0
	2. Review existing data and 3(c) objectives and initiate surveys as requested in regards to eutrophication of Deer Creek Reservoir, and agricultural return flows. (Technical Support Branch)	1 JAN 73	1 DEC 73	2B2148	.2	.5	0	0
	3. Initiate and/or coordinate and review study of water quality impact of Central Utah Project (may involve 3(c) effort). (Planning Branch, Interagency Assistance and Evaluation Branch)	1 NOV 72	1 JUL 74	2B3149 2B6117	1.0 .54	.5 .54	0 .5	0 0
	4. Award construction grants on secondary and/or advanced wastewater treatment facilities. (Municipal Facilities Branch)	1 JUL 72	30 JUN 76	2B8162	.1	.1	.1	.1
					(included in basin summary)			
A. Clearview Trout Farm, UT 205 Suspected organic loading to stream creating possible water quality degradation. Central Utah Project will inundate area prior to 1975 with storage reservoir.	1. Coordinate with RAPP State Engineer to promulgate effluent requirements for interim period. Stress need for abatement commitments to State Game and Fish and Bureau of Environmental Health. (Permits Branch)	1 SEP 72	1 DEC 73	3B2124	1 0	2 0	0	0
					(Included in Basin Summary)			

II. PROVO RIVER - Continued

SITUATION ANALYSIS	RECOMMENDED ACTIONS BY SUB TASK & ORGANIZATION RESPONSIBILITY	DATES INITIATION	DATES COMPLETION	PROGRAM ELEMENT	MANPOWER REQUIRED (PROF - MAN - MOS) FY 73	FY 74	FY 75	FY 76
B. Heber City WWTP Overloaded trickling filter plant not meeting EPA objectives or Class 'D' effluent standards. Regionalization potential is poor. Growth potential is high. On one-year needs list. Reductions required: FY 73 432# BOD_5 74 485# " 75 543# " 76 607# " 28,000/100 ml. of total coliform for FY 73-76.	1. Make construction grant offer for increased capacity with provision for increased efficiency to meet water quality standards; conduct pre-application assistance to determine design criteria. (Municipal Facilities Branch)	1 NOV 72	1 SEP 73	2B8162	.2	.1	0	0
	2. Support recommendations of 3(c) interim basin plan. (Planning Branch)	1 MAY 73	1 DEC 73	2B3149	.05	.05	0	0
	3. Conduct O&M survey. (O&M Section)	1 JUL 73	1 JUL 74	2B8163	0	.25	0	0
					(Included in basin summary)			
C. Midway WWTP Small trickling filter plant not meeting EPA objectives or Class 'D' effluent standards. Regionalization potential is poor. Population growth potential is high. On five-year needs list. Reductions required: FY 73 4# of BOD_5 74 5# " 75 6# " 76 7# " 3,300/100 ml. of total coliform for FY 73-76.	1. Support recommendations of 3(c) fully developed basin plan. (Planning Branch)	1 DEC 73	1 DEC 74	2B3149	0	.2	.2	0
	2. Conduct O&M Survey. (O&M Section)	1 JAN 73	1 JAN 74	2B8163	.3	.05	0	0
					(Included in basin summary)			

II. PROVO RIVER - Continued

SITUATION ANALYSIS	RECOMMENDED ACTIONS BY SUB TASK & ORGANIZATION RESPONSIBILITY	DATES		PROGRAM ELEMENT	MANPOWER REQUIRED (PROF - MAN - MOS)			
		INITIATION	COMPLETION		FY 73	FY 74	FY 75	FY 76
D. Springdell WWTP Discharging Septic tank. Loadings to Provo River are insignificant. Served population is 60 people.	1. Support recommendations of 3(c) fully developed basin plan. (Planning Branch)	1 DEC 73	1 DEC 74	2B3149	0 (Included in basin summary - 1B)	.2	.2	0
E. Utah Power and Light, UT 079 Does not meet EPA objectives (temperature discharge ranges from 80-155°F). Discharges into Provo River and Provo Bench Canal.	1. Establish effluent temperature limit to 95°F. Secure commitment to add nothing but heat to effluent. Request study of impact on mixing characteristics. Stress need to meet State standards. (Permits Branch)	15 SEP 72	15 SEP 73	3B2124	2.0 (Included in basin summary)	3.0	0	0

III. UTAH LAKE

SITUATION ANALYSIS	RECOMMENDED ACTIONS BY SUB TASK & ORGANIZATION RESPONSIBILITY	DATES INITIATION	DATES COMPLETION	PROGRAM ELEMENT	MANPOWER REQUIRED (PROF - MAN - MOS) FY 73	FY 74	FY 75	FY 76
III. Utah Lake and Tributaries other than the Provo River. Water quality in Utah Lake does not meet EPA objectives. Turbidity is a severe problem which is attributed to the lake's shallowness, poor watershed management and domestic, industrial discharges. BOD_5 values are frequently above 10 mg/l. Agricultural return flow is also a contributing factor to water quality degradation. The lake is listed as a target area in EPA's national eutrophication control program. There are nine WWTP's and three industries discharging into Utah Lake or lower stems of tributaries. All wastewater treatment plants and two industries do not presently meet EPA's objectives or Class 'D' effluent standards.	1. Augment 3(c) effort and eutrophication study as necessary to achieve workable knowledge of water quality and biota in lake. (Planning Branch and Technical Support Branch)	1 JAN 73	1 JUL 74	2B3149 2B2148	.3 .1	.3 .5	0 0	0 0
	2. Secure commitments by State, industries and municipalities to achieve water quality standards. May include commitments to construct advanced wastewater treatment facilities. (Planning Branch)	1 JAN 73	1 JAN 75	2B3149	.1 (Included in basin summary - No. 1B)	.1	0	0
	3. Award construction grants on secondary and/or advanced wastewater treatment facilities. (Municipal Facilities Branch)	1 JUL 72	30 JUN 76	2B8162	.7 (Included in basin summary)	.7	.7	.7
A. U. S. Steel at Geneva, UT 181 The Basin's No. 1 discharger, not meeting EPA's objectives under several parameters. At the present time, the waste treatment process approaches "best practicable treatment." EPA objectives are to eliminate 135# of grease and oil per day, 37 pounds of toxic metals and 501 pounds of BOD_5 by June 30, 1976.	1. Secure commitment to meet effluent limitations and State standards. Request effluent monitoring. (Permits Branch)	1 SEP 72	1 SEP 73	3B2124	3.0 (Included in basin summary)	4.0	0	0
	2. Initiate effluent monitoring and/or intensive water quality survey if requested. Coordinate with 3(c) consultant and State of Utah. (Planning Branch and Surveillance Branch and Technical Support Branch)	1 SEP 72 1 JUL 72	1 JUN 74 1 DEC 73	2B2148 2B3149	.3 .05	.5 .05	0 0	0 0

III. UTAH LAKE - Continued

SITUATION ANALYSIS	RECOMMENDED ACTIONS BY SUB TASK & ORGANIZATION RESPONSIBILITY	DATES INITIATION	DATES COMPLETION	PROGRAM ELEMENT	MANPOWER REQUIRED (PROF - MAN - MOS) FY 73	FY 74	FY 75	FY 76
B. Provo WWTP Trickling filter plant that is designed for less than secondary treatment. Largest treatment plant discharging into Utah Lake. Impact on water quality is significant. Total reductions required to meet EPA objectives: FY 73 2332# of BOD_5 74 2615# " 75 2926# " 76 3268# " Total coliform - 958,000/100 ml. FY 73-76. On five-year needs list and under commitment to achieve secondary.	1. Conduct O&M Survey. (O&M Section)	1 OCT 72	1 OCT 73	2B8163	.30	.05	0	0
	2. Conduct pre-application and preconstruction conference. Emphasize need for effluent monitoring equipment. (Municipal Facilities Branch)	1 NOV 72	1 NOV 73	2B8162	.05	.05	0	0
	3. Support recommendations of 3(c) fully developed basin plan. (Planning Branch)	1 DEC 73	1 DEC 74	2B3149	0	.2	.2	0
	(Included in basin summary)				(Included in basin summary - No. 1B)			
C. American Fork WWTP Trickling filter plant that is overloaded. On one-year needs list. Total reductions required to meet EPA objectives: FY 73 365# of BOD 74 406# " 75 451# " 76 501# " FY 73-76 - 1,258,516 total coliform. Regionalization potential with Pleasant Grove WWTP and Lehi WWTP is excellent. Population growth potential is high.	1. Conduct O&M Survey. (O&M Section)	1 OCT 72	1 OCT 73	2B8163	.30	.05	0	0
	(Included in basin summary)							
	2. Conduct pre-application and preconstruction conference. (Municipal Facilities Branch)	1 NOV 72	1 NOV 73	2B8162	.05	.05	0	0
	3. Support recommendations of 3(c) interim plan. (Planning Branch)	1 MAY 73	1 DEC 73	2B3149	.05	.05	0	0
	(Included in basin summary, No. 1A)							

III. UTAH LAKE - Continued

SITUATION ANALYSIS	RECOMMENDED ACTIONS BY SUB TASK & ORGANIZATION RESPONSIBILITY	DATES INITIATION	DATES COMPLETION	PROGRAM ELEMENT	MANPOWER REQUIRED (PROF - MAN - MOS) FY 73	FY 74	FY 75	FY 76
D. Reilly Tar and Chemical, UT 186 For the BOD parameter, this industry is meeting EPA objectives. It discharges less than 5# of BOD in Spring Creek, a tributary of Utah Lake. A high temperature discharge in excess of 95°F is reported.	1. Secure commitment for temperature limit on effluent of 95°F. Secure additional information on effluent quality. (Permits Branch)	12 SEP 72	15 NOV 73	3B2124	3.0 (Included	3.0 in basin	0 summary)	0
E. Pacific States Cast Iron Pipe, UT 274 Meeting EPA objectives for BOD_5 and total coliform. However, discharges of toxic metals and other pollutants is suspect.	1. Secure commitment, if needed, for effluent limit on temperature, BOD, SS and oil and grease. (Permits Branch)	12 SEP 72	15 NOV 73	3B2124	3.0 (Included	4.0 in basin	0 summary)	0
	2. Request monitoring program to determine effluent characteristics. (Permits Branch)	12 SEP 72	1 FEB 74	3B2124	3.0 (Included	3.0 in basin	0 summary)	0
F. Springville WWTP Trickling filter plant not meeting EPA objectives or Class 'D' effluent requirements. On one to five-year needs list. Reductions required to meet EPA objectives: FY 73 195# of BOD_5 74 223# " 75 255# " 76 290# " 105,000/100 ml. of total coliform. Regionalization potential is fair. Population growth potential is moderate.	1. Support recommendations of 3(c) fully developed plan. (Planning Branch)	1 DEC 73	1 DEC 74	2B3149	0 (Included	.2 in basin summary, No. 1B)	.2	0
	2. Conduct O&M Survey. (O&M Section)	1 JUL 73	1 JUL 74	2B8163	0 (Included	.25 in basin	0 summary)	0

III. UTAH LAKE - Continued

SITUATION ANALYSIS	RECOMMENDED ACTIONS BY SUB TASK & ORGANIZATION RESPONSIBILITY	DATES INITIATION	DATES COMPLETION	PROGRAM ELEMENT	MANPOWER REQUIRED (PROF - MAN - MOS) FY 73	FY 74	FY 75	FY 76
G. Salem WWTP Trickling filter plant not meeting EPA objectives or Class 'D' effluent standards. Reductions required to meet objectives: FY 73 248# of BOD_5 74 273# of BOD_5 75 301# of BOD_5 76 333# of BOD_5 76,000/100 ml. total coliform for FY 73-76. Plant located 1.08 miles upstream from Payson WWTP. On five-year needs list. Regionalization potential is good. Population growth potential is moderate.	1. Support recommendations of 3(c) fully developed plan. (Planning Branch)	1 DEC 73	1 DEC 74	2B3149	0 (Included in basin summary)	.2	.2	0
	2. Conduct O&M Survey. (O&M Section)	1 JUL 73	1 JUL 74	2B8163	0 (Included in basin summary)	.25	0	0
H. Spanish Fork WWTP Overloaded trickling filter plant not meeting EPA objectives or Class 'D' effluent standards. Reductions required: FY 73 472# BOD_5 74 519# " 75 571# " 76 628 " 22,600/100 ml. total coliform FY 73-76. On one-year needs list for increased capacity. Regionalization potential is fair. Population growth potential is moderate.	1. Conduct pre-application and pre-construction conference. (Municipal Facilities Branch)	1 JAN 73	1 JUL 73	2B8162	.05	0	0	0
	2. Support recommendations of interim 3(c) basin plan. (Planning Branch)	1 MAY 73	1 DEC 73	2B3149	.05 (Included in basin summary No. 1A)	.05	0	0
	3. Conduct O&M Survey. (O&M Section)	1 JUL 73	1 JUL 74	2B8163	0 (Included in basin summary)	.25	0	0

III. UTAH LAKE - Continued

SITUATION ANALYSIS	RECOMMENDED ACTIONS BY SUB TASK & ORGANIZATION RESPONSIBILITY	DATES INITIATION	DATES COMPLETION	PROGRAM ELEMENT	MANPOWER REQUIRED (PROF - MAN - MOS) FY 73	FY 74	FY 75	FY 76
I. Orem WWTP Trickling filter plant not meeting EPA objectives or Class 'D' effluent requirements. Reductions required: FY 73 483# of BOD_5 74 541# " 75 604# " 76 674# " 58,900/100 ml. of total coliform for FY 73-76. Regionalization potential is fair. Population growth potential is high.	1. Conduct O&M Survey. (O&M Section)	1 JUL 73	1 DEC 73	2B8163	0	.25	0	0
					(Included in basin summary)			
	2. Support recommendations of 3(c) fully developed basin plan (Planning Branch)	1 DEC 73	1 DEC 74	2B3149	0	.2	.2	0
					(Included in basin summary, No. 1B)			
J. Lehi WWTP Trickling filter plant not meeting EPA objectives or Class 'D' effluent requirements. On one-year needs list. Reductions required: FY 73 95# of BOD_5 74 107# " 75 120# " 76 134# " 94,000/100 ml. of total coliform for FY 73-76. Regionalization potential is excellent. Population growth potential is moderate. Consolidation with American Fork WWTP and Pleasant Grove WWTP is being considered.	1. Support recommendation of 3(c) interim plan. (Planning Branch)	1 MAY 73	1 DEC 73	2B3149	.05	.05	0	0
					(Included in basin summary, No. 1A)			
	2. Conduct pre-application and pre-construction conference (Municipal Facilities Branch)	1 JAN 73	1 JUL 73	2B8162	.05	0	0	0
	3. Conduct O&M Survey. (O&M Section)	1 JUL 73	1 JUL 74	2B8163	0	.25	0	0
					(Included in basin summary)			

XII. UTAH LAKE - Continued

SITUATION ANALYSIS	RECOMMENDED ACTIONS BY SCS UNIT & ORGANIZATION RESPONSIBILITY	DATES INITIATION	DATES COMPLETION	PROGRAM ELEMENT	MANPOWER REQUIRED (PROF - MAN - MOS) FY 73	FY 74	FY 75	FY 76
K. Basin WWTP Trickling filter plant not meeting EPA objectives. On five-year needs list. Reductions required: FY 73 55# of BOD_5 74 63# " 75 72# " 76 82# " 185,000/100 ml. of total coliform for FY 73-76. Regionalization potential is excellent. Population growth potential is moderate.	1. Support recommendations of 3(c) full development plan. (Planning Branch)	1 DEC 73	1 DEC 74	2B3149	0 (Included in basin summary, No. 18)	.2	.2	0
	2. Conduct O&M survey. (O&M Section)	1 JUL 73	1 JUL 74	2B8163	0 (Included in basin summary)	.25	0	0
L. Pleasant Grove WWTP Trickling filter plant not meeting EPA objectives. On five-year needs list. Reductions required: FY 73 173# of BOD_5 74 195# " 75 229# " 76 235# " 56,000/100 ml. of total coliform for FY 73-76. Regionalization potential is excellent. Consolidation scheme for Pleasant Grove Leni and American Fork is being considered. Population growth potential is moderate.	1. Support recommendations of 3(c) interim basin plan. (Planning Branch)	1 MAY 73	1 DEC 74	2B3149	.05 (Included in basin summary, No. 14)	.05	0	0
	2. Conduct O&M Survey. (O&M Section)	1 JUL 73	1 JUL 74	2B8163	0 (Included in basin summary)	.25	0	0

IV. JORDAN RIVER FROM UTAH LAKE TO THE SURPLUS CANAL

SITUATION ANALYSIS	RECOMMENDED ACTIONS BY SUB TASK & ORGANIZATION RESPONSIBILITY	DATES INITIATION	DATES COMPLETION	PROGRAM ELEMENT	MANPOWER REQUIRED (PROF - MAN - YRS) FY 73	FY 74	FY 75	FY 76
IV. The Jordan River from Utah Lake to the Surplus Canal at 2100 S. contains seven domestic wastewater treatment plants and two industrial discharges. Domestic wastewater treatment plants do not meet EPA objectives and five of them violate Class 'D' effluent requirements. Both industries meet EPA objectives for coliform and BOD. Scott Avenue State Fish Hatchery, however, is suspect for large organic loadings to Mill Creek. The lower half of this stream reach has an extensive sludge deposit on the river bottom. Although the potential for a fishery exists at the present time, it is minimal. One or two all purpose dam sites are proposed for the upper half of the stream reach at or near Bluffdale Road. The majority of the flow in the Jordan at the narrows is diverted for agricufltural use. Return flows from irrigation usage is a continuing source of additional organic and inorganic pollutants to the Jordan and its tributaries. EPA has conducted a two-week intensive water quality survey of the Jordan River, completed September 1, 1972. O&M has completed surveys on five wastewater treatment plants.		1 JAN 73	1 JUL 74	2B2148	.05	.3	0	0
	1. Coordinate respiration studies of bottom deposits and biota in Jordan River. (Technical Support Branch)							
	2. Investigate the impact of the reservoir(s) before and after completion (pre- and post-impoundment study) on the water quality of the Jordan River. (Technical Support Branch)		30 JUN 76	2B2148	----------	----	open	----------
	3. Award construction grants on secondary and/or advanced wastewater treatment facilities. (Municipal Facilities Branch)	1 JUL 72	30 JUN 76	2B8162	.5	.5	.5	.5
					(Included in basin summary).			

IV. JORDAN RIVER FROM UTAH LAKE TO THE SURPLUS CANAL

SITUATION ANALYSIS	RECOMMENDED ACTIONS BY SUB TASK & ORGANIZATION RESPONSIBILITY	DATES INITIATION	DATES COMPLETION	PROGRAM ELEMENT	MANPOWER REQUIRED (PROF - MAN - MOS) FY 73	FY 74	FY 75	FY 76
A. Granger-Hunter WWTP Trickling filter plant not meeting EPA objectives. Regionalization potential with adjacent facilities is excellent. An O&M survey was completed by EPA in May 1973. On one-year needs list for increased capacity. Reductions required to meet EPA objectives. 1,943,000/100 ml. total coliform for FY 73-76. O&M Survey recommendations: A. Emphasize operator training. B. Additional testing should be made. C. Continue to improve maintenance. D. Investigate the need to increase recirculation rates. Population growth is high.	1. Insure implementation of recommendations of O&M Survey. (O&M Section)	1 NOV 72	1 JUL 73	2B8163	.05	0	0	0
	2. Conduct pre-application conference. Stress design needs for maintenance of water quality standards. (Municipal Facilities Branch)	1 JAN 73	1 NOV 73	2B8162	.05	.05	0	0
	3. Support recommendations of 3(c) interim basin plan. (Planning Branch)	MAY 73	1 DEC 73	2B3149	.05 (Included in basin summary, No. 1A)	.05	0	0

IV. JORDAN RIVER FROM UTAH LAKE TO THE SURPLUS CANAL

SITUATION ANALYSIS	RECOMMENDED ACTIONS BY SUB TASK & ORGANIZATION RESPONSIBILITY	DATES INITIATION	DATES COMPLETION	PROGRAM ELEMENT	MANPOWER REQUIRED (PROF - MAN - YRS) FY 73	FY 74	FY 75	FY 76
B. Salt Lake County Cottonwood WWTP Trickling filter plant that has violated Class 'D' effluent standards in the past but an expansion of the plant was completed in early 1972. Regionalization potential with existing or a new plant is good. O&M survey conducted by EPA completed May 1972. On one-year needs list for increased capacity. Required reductions: FY 73 2044# BOD_5 74 2266# " 75 2510# " 76 2778# " 1,200,497/100 ml. of total coliform for FY 73-76. Population growth potential is high. O&M Survey recommendations: A. Increase chlorine residual tests. B. Housekeeping and maintenance should be improved. C. Increase staff. D. Increase recirculation. E. Investigate infiltration problem.	1. Insure implementation of recommendations of O&M Survey. (Planning Branch and O&M Section)	1 NOV 72	1 JUL 73	2B8163	.05	0	0	0
	2. Conduct pre-application conference. Stress design needs for maintenance of water quality standards.(Municipal Facilities Branch)	1 JAN 73	1 NOV 73	2B8162	.05	.05	0	0
	3. Support recommendations of 3(c) interim basin plan. (Planning Branch)	1 MAY 73	1 DEC 73	2B3149	.05	.05 (Included in basin summary, No. 1A)	0	0

IV. JORDAN RIVER FROM UTHA LAKE TO THE SURPLUS-CANAL - Continued

SITUATION ANALYSIS	RECOMMENDED ACTIONS BY SUB TASK & ORGANIZATION RESPONSIBILITY	DATES INITIATION	DATES COMPLETION	PROGRAM ELEMENT	MANPOWER REQUIRED (PROF - MAN - MOS) FY 73	FY 74	FY 75	FY 76
C. Murray WWTP Trickling filter plant. EPA grant offer for increased capacity made August 3, 1972. Presently does not meet 'D' standards or EPA objectives. Regionalization potential with existing or new plant is good. Required reductions: FY 73 1059# BOD_5 74 1176# " 75 1305# " 76 1447# " 30,500/100 ml. of total coliform for FY 73-76. Population growth potential is high.	1. Insure compliance with "D" standards through final inspection. (Municipal Facilities Branch)	1 MAY 73	1 JUL 73	2B8162	.05	0	0	0
	2. Conduct O&M Survey. (O&M Section)	1 OCT 72	1 JAN 73	2B8163	.35 (Included in basin plan)	0	0	0
	3. Support recommendations of 3(c) fully developed basin plan. (Planning Branch)	1 DEC 73	1 DEC 74	2B3149	0 (Included in basin summary, No. 1B)	.2	.2	0

IV. JORDAN RIVER FROM UTAH LAKE TO THE SURPLUS CANAL - Continued

SITUATION ANALYSIS	RECOMMENDED ACTIONS BY SUB TASK & ORGANIZATION RESPONSIBILITY	DATES INITIATION	DATES COMPLETION	PROGRAM ELEMENT	MANPOWER REQUIRED (PROF - MAN - MOS) FY 73	FY 74	FY 75	FY 76
D. Salt Lake City Suburban #1 WWTP Trickling filter plant not meeting EPA objectives. Regionalization potential with existing or new facilities is good. O&M survey by EPA completed May 1972. On five-year needs list. Required reductions: FY 73 1573# BOD_5 74 1777# " 75 2001# " 76 2247# " 5,400/100 ml. total coliform for FY 73-76. O&M Survey recommendations: A. Additional records should be established on effluent. B. Consideration should be given to hiring plant chemist. Population growth potential is high.	1. Insure implementation of recommendations of O&M Survey. (O&M Section)	1 NOV 72	1 JUL 73	2B8163	.10	0	0	0
	2. Support recommendations of 3(c) fully developed and interim basin plan. (Planning Branch)	1 MAY 73	1 DEC 74	2B3149	.05 (Included in basin summary, No. 1B)	.2	.2	0

IV. JORDAN RIVER FROM UTAH LAKE TO THE SURPLUS CANAL - Continued

SITUATION ANALYSIS	RECOMMENDED ACTIONS BY SUB TASK & ORGANIZATION RESPONSIBILITY	DATES		PROGRAM ELEMENT	MANPOWER REQUIRED (PROF - MAN - MOS)			
		INITIATION	COMPLETION		FY 73	FY 74	FY 75	FY 76
E. TRI-Community WWTP Trickling filter plant not meeting Class 'D' effluent requirements and EPA objectives. O&M survey by EPA completed in May 1972. On one-year needs list for increased capacity. Application pending approval by EPA. Regionalization with existing or new plant is good. Required reductions: FY 73 821# BOD_5 74 919# " 75 1027# " 76 1146# " 48,100/100 ml. of total coliform for FY 73-76. Population growth potential is extremely high. O&M Survey recommendations: A. Study should be made on infiltration. B. Chlorinators should be repaired. C. Increase staff. D. Training should be emphasized.	1. Insure implementation of recommendations of O&M Survey. (O&M Section)	1 NOV 72	1 JUL 73	2B8163	.10	0	0	0
	2. Support recommendation of 3(c) fully developed basin plan. (Planning Branch)	1 DEC 73	1 DEC 74	2B3149	0	.2 (Included in basin summary, No. 1B)	.2	0

IV. JORDAN RIVER FROM UTAH LAKE TO T SURPLUS CANAL - Continued

SITUATION ANALYSIS	RECOMMENDED ACTIONS BY SUB TASK & ORGANIZATION RESPONSIBILITY	DATES INITIATION	DATES COMPLETION	PROGRAM ELEMENT	MANPOWER REQUIRED (PROF - MAN - MOS) FY 73	FY 74	FY 75	FY 76
F. Sandy WWTP Activated sludge plant not meeting Class 'D' standards or EPA objectives. On one-year needs list for increased capacity. Regionalization with existing of new plant is good. O&M Survey completed by EPA in May 1971. Required reductions: FY 73 503# BOD_5 74 641# " 75 705# " 76 776# " 11,712/100 ml. of total coliform for FY 73-76. O&M Survey recommendations: A. Improved on-site plant testing. B. Increase plant staff. C. Aeration tank should be returned to service. D. Training should be emphasized. Population growth potential is high.	1. Insure implementation of recommendations of O&M Survey. (O&M Section)	1 NOV 72	1 JUL 73	2B8163	.10	0	0	0
	2. Provide follow-up assistance concerning operation. (O&M Section)	1 JAN 73	1 JUL 73	2B8163	.10	0	0	0
	3. Conduct pre-application and pre-construction conference. (Municipal Facilities Branch)	1 NOV 72	1 JUL 73	2B8162	.05	0	0	0
	4. Support recommendation of 3(c) interim basin plan. (Planning Branch).	1 MAY 73	1 DEC 73	2B3149	.05 (Included in basin summary, No. 1A)	.05	0	0

IV. JORDAN RIVER FROM UTAH LAKE TO THE SURPLUS CANAL - Continued

SITUATION ANALYSIS	RECOMMENDED ACTIONS BY SUB TASK & ORGANIZATION RESPONSIBILITY	DATES INITIATION	DATES COMPLETION	PROGRAM ELEMENT	MANPOWER REQUIRED (PROF - MAN - MOS) FY 73	FY 74	FY 75	FY 76
G. Utah Division of Wildlife, UT 190 Scott Avenue State Fish Hatchery, UT 196 Meets Class 'D' standards and EPA objectives. However, industry is suspect for periods of high organic discharges to Mill Creek.	1. Encourage monitoring program for receiving waters. (Permits Branch)	1 OCT 72	1 JAN 74	3B2124	3.0 (Included in basin summary)	4.0	0	0
	2. Insure that monitoring program is initiated. (Permits Branch)	1 SEP 72	1 JAN 74	3B2124	3.0 (Included in basin summary)	4.0	0	0
H. Key Industries, UT 227 Sand and gravel operation discharging into Big Cottonwood Canyon. This industry meets Class 'D' standards and EPA objectives. However, problems associated with turbidity have been noted in the receiving stream. By way of commitment, the industry has begun an abatement program: 1) Ponds will be dredged and 2) the major discharge will be eliminated by FY 73.	1. Monitor progress of abatement schedule. (Permits Branch)	1 SEP 72	30 JUN 74	3B2124	3.0 (Included in basin summary)	4.0	0	0
	2. Insure that monitoring program is initiated. (Permits Branch)	1 SEP 72	1 JAN 74	3B2124	3.0 (Included in basin summary)	4.0	0	0
I. Utah State Prison WWTP Extended aeration plant that is heavily overloaded. Does not meet Class 'D' effluent standards or EPA objectives. The wastes now generated by the prison are to be treated at the TRI-Community WWTP by end of FY 73 or beginning of FY 74.	1. Monitor progress of construction grant. (Planning Branch)	1 NOV 72	1 JUL 73	2B3149	.05	0	0	0

IV. JORDAN RIVER FROM UTAH LAKE TO THE SURPLUS CANAL - Continued

SITUATION ANALYSIS	RECOMMENDED ACTIONS BY SUB TASK & ORGANIZATION RESPONSIBILITY	DATES INITIATION	DATES COMPLETION	PROGRAM ELEMENT	MANPOWER REQUIRED (PROF - MAN - YRS) FY 73	FY 74	FY 75	FY 76
V. The Jordan River, the Surplus Canal and the State Industrial Canal contain three domestic wastewater treatment plants and five industrial dischargers. Two plants meet Class 'D' effluent standards but all three do not meet EPA objectives. Three industries do not meet 'D' standards or EPA objectives and two industries discharge undesirable thermal pollution to the Jordan River. Again, this area of the Jordan contains extensive deposits of sludge. O&M surveys have not been completed for the wastewater treatment plants. Some portion of Jordan River is to be part of a "Parkway" development.	1. Award construction grants on secondary and/or advanced wastewater treatment facilities. (Municipal Facilities Branch)	1 JUL 72	30 JUN 76	2B8162	.2 (Included in basin summary)	.2	.2	.2
A. Utah Wool Pulling Company, UT This industrial discharger does not meet Class 'D' effluent requirements or EPA objectives. The land presently occupied will tentatively be condemned for expansions to the existing international airport by the end of FY 73. RAPP has requested engineering studies on waste treatment with completion of construction on July 12, 1973 if industry is still located at present site. Reductions required for the interim period: FY 73 3252# of BOD_5 1,251,812/100 ml. of total coliform for FY 73.	1. Work with State and industry to devise interim abatement measures to reduce effluent to Class 'D' standards. (Permits Branch)	1 SEP 72	1 NOV 73	3b2124	3.0 (Included in basin summary)	2.0	0	0

V. JORDAN RIVER RM 2100 SOUTH TO MOUTH INCLUDING SURPLUS CANAL & STATE INDUSTRIAL CANAL - Continued

SITUATION ANALYSIS	RECOMMENDED ACTIONS BY SUB TASK & ORGANIZATION RESPONSIBILITY	DATES INITIATION	DATES COMPLETION	PROGRAM ELEMENT	MANPOWER REQUIRED (PROF - MAN - MOS) FY 73	FY 74	FY 75	FY 76
B. Phillips Petroleum, UT 211 This industrial discharger does not meet Class 'D' effluent standards nor EPA objectives. It discharges into a diversion of the Jordan River (State Industrial Canal) which eventually is received by the Great Salt Lake. Reductions required: FY 73 229# of BOD_5 74 257# " 75 287# " 76 321# "	1. Secure and review commitment letter for best practical treatment and/or maintenance of stream standards. (Permits Branch)	1 OCT 72	1 JAN 74	3B2124	3.0 (Included in basin summary)	4.0	0	0
C. Utah Power and Light, UT 082 This industry does not meet Class 'D' effluent standards or EPA objectives. Temperature of effluent may reach 180°. Reductions required: FY 73 3# of BOD_5 74 5# " 75 8# " 76 12# "	1. Secure and review commitment by industry to limit thermal discharge to 95° F. (Permits Branch)	1 OCT 72	1 JAN 73	3B2124	3.0 (Included in basin summary)	4.0	0	0

V. JORDAN RIVER RM 2100 SOUTH TO MOUTH INCLUDING SURPLUS CANAL AND STATE INDUSTRIAL CANAL - Continued

SITUATION ANALYSIS	RECOMMENDED ACTIONS BY SUB TASK & ORGANIZATION RESPONSIBILITY	DATES INITIATION	DATES COMPLETION	PROGRAM ELEMENT	MANPOWER REQUIRED (PROF - MAN - YRS) FY 73	FY 74	FY 75	FY 76
D. Utah Power and Light, UT 081 This industry meets Class 'D' effluent standards and EPA objectives. Temperature of effluent, however, may involve a violation. This plant is a standby operation and may be inoperative in the near future.	1. Secure and review commitment by industry to limit thermal discharge to 95 F. (Permits Branch)	1 OCT 72	1 JAN 74	3B2124	3.0	4.0	0	0
					(Included in basin summary)			
E. South Davis County Sewer Improvement District South WWTP A trickling filter plant that does not meet Class 'D' effluent standards or EPA objectives. On five-year needs list. Reductions required: FY 73 244# of BOD_5 74 274# " 75 307# " 76 343# " Regionalization potential is poor. Population growth potential is high.	1. Conduct O&M Survey. (O&M Section)	1 OCT 72	1 JAN 73	2B8163	.30	0	0	0
					(Included in basin summary)			
	2. Support recommendations of 3(c) fully developed basin plan. (Planning Branch)	1 DEC 73	1 DEC 74	2B3149	0	.2	.2	0
					(Included in basin summary)			

V. JORDAN RIVER FM 2100 SOUTH TO MOUTH INCLUDING SURPLUS CANAL AND STATE INDUSTRIAL CANAL - Continued

SITUATION ANALYSIS	RECOMMENDED ACTIONS BY SUB TASK & ORGANIZATION RESPONSIBILITY	DATES INITIATION	DATES COMPLETION	PROGRAM ELEMENT	MANPOWER REQUIRED (PROF - MAN - MOS) FY 73	FY 74	FY 75	FY 76
F. South Salt Lake WWTP A trickling filter plant not meeting Class 'D' effluents standards or EPA objectives. Construction grant offer for mechanical improvements to be made September 1972. On five-year needs list. Reductions required: FY 73 239# BOD_5 74 274# " 75 312# " 76 354# "	1. Conduct O&M Survey. (O&M Section)	1 OCT 72	1 JAN 73	2B8163	.30	0	0	0
					(Included in basin summary)			
	2. Support recommendations of 3(c) fully developed basin plan. (Planning Branch)	1 DEC 73	1 DEC 74	2B3149	0	.2	.2	0
					(Included in basin summary)			
G. South Davis County Sewer Improvement District, North WWTP A trickling filter plant that does meet Class 'D' effluent standards but does not meet EPA objectives. On one-year needs list. Reductions required: FY 73 514# of BOD_5 74 582# " 75 656# " 76 737# " Regionalization potential is poor. Population growth potential is high.	1. Conduct O&M Survey. (O&M Section)	1 OCT 72	1 JAN 73	2B8163	.30	0	0	0
					(Included in basin summary)			
	2. Conduct preapplication and preconstruction conference. (Municipal Facilities Branch)	1 JAN 73	1 NOV 73	2B8162	.05	.05	0	0
	3. Support recommendations of 3(c) interim basin plan. (Planning Branch)	1 MAY 73	1 DEC 73	2B3149	.05	.05	0	0
					(Included in basin summary No. 1A)			

V. JORDAN RIVER RM 2100 SOUTH TO MOUTH INCLUDING SURPLUS CANAL AND STATE INDUSTRIAL CANAL - Continued

SITUATION ANALYSIS	RECOMMENDED ACTIONS BY SUB TASK & ORGANIZATION RESPONSIBILITY	DATES		PROGRAM ELEMENT	MANPOWER REQUIRED (PROF - MAN - YRS)			
		INITIATION	COMPLETION		FY 73	FY 74	FY 75	FY 76
H. Denver and Rio Grande Railroad, UT1800 This industrial discharger does not meet Class '0' effluent standards and EPA objectives. Although there is no reported BOD violations, one is highly suspect. Reductions required: 2,500/100 ml. total coliform for FY 73-76.	1. Obtain water quality data from State, 3(c), industry or EPA initiated survey. (Permits Branch)	1 OCT 72	1 DEC 73	3B2124	3.C (Included in basin summary)	2.0	0	0

SECTION G

POINT SOURCE REDUCTIONS REQUIRED

TABLE IV - WATER QUALITY IMPROVEMENT THROUGH COMPLETION OF ACTION ITEMS

INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: CLEARVIEW TROUT FARM UT 205

WATER QUALITY-PARAMETERS	ASSIGNED ACTION ITEMS REQUIRED FOR REDUCTION	PRESENT WASTE LOADS (24 hr - ave)	WASTE LOADS REDUCTION (SEE TABLE III)					PRESENT WATER QUALITY	ANTICIPATED WATER QU (7-day - 10 year flo (SEE WDS & TABLE III)				
	(From TABLE III)	(See TABLE I)	FY 72	FY 73	FY 74	FY 75	FY 76	(See TABLE II)	FY 72	FY 73	FY 74	FY 75	FY 76
BOD_5	I.1B.5.6., II.A.1	100#	0	0	0	0	0	Unknown	-	5	5	5	0
Total Coliform	" "	No data						less than 5,000/100ml.					
INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: HEBER CITY WASTEWATER TREATMENT PLANT													
BOD_5	I.3.7.14., II.B.1.2	480#	-	432	485	543	607	65 mg/1	-	40	30	20	5
Total Coliform	" "	33,000/100 ml.		28M	28M	28M	28M	930,000/100 ml.		100M	50M	10M	5M
INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: MIDWAY WASTEWATER TREATMENT PLANT													
BOD_5	I.3.7.14, II.C.1.2	10#		4	5	6	7	3.9 mg/1		3.9	3.0	3.0	3.0
Total Coliform	" "	8,300/100 ml.		3.3M	3.3M	3.3M	3.3M	43,000/100 ml.		30M	20M	10M	5M
INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: SPRINGDELL WASTEWATER TREATMENT PLANT													
BOD_5	I.3.7.14, II.D.1	insignificant		0	0	0	0	Approx. 5.8 mg/1		5.0	5.0	5.0	5 mg/1
Total Coliform	" "	No data						Approx 24,000/100 ml.		20M	10M	5M	5M

TABLE IV - WATER QUALITY IMPROVEMENT THROUGH COMPLETION OF ACTION ITEMS

INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: UTAH POWER & LIGHT UT 079

WATER QUALITY PARAMETERS	AGGREGATED ACTION ITEMS REQUIRED FOR REDUCTION	PRESENT WASTE LOADS (24 hr - ave)	WASTE LOADS REDUCTION (SEE TABLE III)					PRESENT WATER QUALITY	ANTICIPATED WATER QUALITY (7-day - 10 year flow) (SEE ITEMS & TABLE III)				
	(From TABLE III)	(See TABLE I)	FY 72	FY 73	FY 74	FY 75	FY 76	(See TABLE II)	FY 72	FY 73	FY 74	FY 75	FY 76
BOD_5	N/A	0		0	0	0	0	Approx. 5.8 mg/1		5.0	5.0	5.0	5.0
Total Coliform	N/A	No data		60	60	60	60	Approx. 24,000/100 ml..		20M	10M	5M	5M
Temp.	1.1B.5.6.15., II.E.1	86° - 155°F											95°
INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: U. S. STEEL AT GENEVA, UT 181													
BOD_5	I.1B.5.6., III.A.1.2	1182#	-	442	454	467	481	5-10 mg/1		8	7	7	4
Total Coliform	" "	No data		24	24	24	24	less than 5,000/100 ml.					
Toxic Metals	" "	24#						No data					
INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: PROVO WASTEWATER TREATMENT PLANT													
BOD_5	I.3.7.14., III.B.1.2.3	2570#		2232	2615	2926	3268	35 mg/1		30	22	10	5
Total Coliform	" "	963,000/100 ml.		958M	958M	958M	958M	930,000/100 ml.		900M	300M	50M	5M
INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: AMERICAN FORK WASTEWATER TREATMENT PLANT													
BOD_5	I.3.7.14., III.C.1.2.3	374#		365M	406M	451M	501M	5-10 mg/1		10	8	6	4
Total Coliform	" "	1,268,716/100 ml.		1,268,916	------	------	------	less than 5,000/100 ml.					

TABLE IV - WATER QUALITY IMPROVEMENT THROUGH COMPLETION OF ACTION ITEMS

INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: REILLY TAR AND CHEMICAL UT 186

QUALITY-PARAMETERS	ASSOCIATED ACTION ITEMS REQUIRED FOR REDUCTION	PRESENT WASTE LOADS (24 hr - ave)	WASTE LOADS REDUCTION (SEE TABLE III)					PRESENT WATER QUALITY	ANTICIPATED WATER QU (7-day - 10 year flo (SEE WQS & TABLE III				
	(From TABLE III)	(See TABLE I)	FY 72	FY 73	FY 74	FY 75	FY 76	(See TABLE II)	FY 72	FY 73	FY 74	FY 75	FY 76
BOD_5	I.1B.5.6, III.D.1	4#		0	0	0	0	Approx. 30 mg/1		25	20	10	5
Total Coliform	" "	No data						Approx. 1,000,000/100 ml.		1M	250M	50M	5M
INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: PACIFIC STATES CAST IRON PIPE, UT 274													
BOD_5	I.1B.5.6., III.E.1.2	7#		0	0	0	0	Approx. 6.0		6	6	6	5
Total Coliform	" "	417/100 ml.		0	0	0	0	Approx. 3,000/100 ml.		3M	3M	3M	2M
INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: SPRINGVILLE WASTEWATER TREATMENT PLANT													
BOD_5	I.3.7.14., III.F.1.2	261#		195	223	255	290	26 mg/1		25	20	10	5
Coliform	" "	110,000/100 ml.		105M	----	----	----	1,604,002/100 ml.		1M	250M	50M	5M
INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: SALEM WASTEWATER TREATMENT PLANT													
BOD_5	I.3.7.14., III.G.1.2	231#		248	273	301	333	12.80 mg/1		12	10	8	5
Coliform	" "	81,000/100 ml.		76M	----	----	----	150,000/100 ml.		125M	100M	25M	5M

TABLE IV - WATER QUALITY IMPROVEMENT THROUGH COMPLETION OF ACTION ITEMS

INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: SPANISH FORK WASTEWATER TREATMENT PLANT

QUALITY PARAMETERS	ASSOCIATED ACTION ITEMS REQUIRED FOR REDUCTION	PRESENT WASTE LOADS (24 hr - ave)	WASTE LOADS REDUCTION (See TABLE III)					PRESENT WATER QUALITY	ANTICIPATED WATER QU. (7-day - 10-year flo (See MOS & TABLE III)				
	(From TABLE III)	(See TABLE I)	FY 72	FY 73	FY 74	FY 75	FY 76	(See TABLE II)	FY 72	FY 73	FY 74	FY 75	FY 76
BOD_5	I.3.7.14., III.H.1.2.3	429#		472	519	571	628	14.0 mg/l		12	10	10	5
Coliform	" "	27,600/100 ml.		22.6M	----	----	----	93,000/100 ml.		75M	50M	20M	4.8M
INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: OREM WASTEWATER TREATMENT PLANT													
BOD_5	I.3.7.14., III.I.1.2	526#		483	541	604	674	Approx. 5-10 mg/l					5
Coliform	I.3.7.14., III.I.1.2	63,900/100 ml.		58.9M	----	----	----	Less than 5,000/100 ml.					5M
INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: LEHI WASTEWATER TREATMENT PLANT													
BOD_5	I.3.7.14., III J.1.2.3	105#		95	107	120	134	9.8 mg/l		9.0	8.0	8.0	5.0
Coliform	I.3.7.14., III J.1.2.3	99,000/100 ml.		94M	-	-	-	43,000/100 ml.		40M	20M	10M	5M
INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: PAYSON WASTEWATER TREATMENT PLANT													
BOD_5	I.3.7.14., III.K.1.2	71#		55	63	72	82	4.3 mg/l		4	3	2	2
Coliform	" "	190,000/100 ml.		185M	-	-	-	93,000/100 ml.		75M	50M	25M	5M

TABLE IV - WATER QUALITY IMPROVEMENT THROUGH COMPLETION OF ACTION ITEMS

INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: PLEASANT GROVE WASTEWATER TREATMENT PLANT

QUALITY-PARAMETERS	AGGREGATED ACTION ITEMS REQUIRED FOR REDUCTION	PRESENT WASTE LOADS (24 hr - ave)	WASTE LOADS REDUCTION (SEE TABLE III)					PRESENT WATER QUALITY	ANTICIPATED WATER QU. (7-day - 10 year flo (SEE MDS & TABLE III)				
	(From TABLE III)	(See TABLE I)	FY 72	FY 73	FY 74	FY 75	FY 76	(See TABLE II)	FY 72	FY 73	FY 74	FY 75	FY 76
BOD_5	I.3.7.14., III.B.1.2	198*		173	195	229	235	9.1-mg/l		9.0	9.0	8.0	5.0
Coliform	" "	61,000/100 ml.		56M	-	-	-	23,000/100 ml.		20M	15M	10M	5M
	INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: GRANGER-HUNTER WASTEWATER TREATMENT PLANT												
BOD_5	I.7.14., IV.A.1.2.3	2090*		2090	2320	2573	2851	7.5 mg/l		7.0	6.0	6.0	5.0
Coliform	" "	10,400/100 ml.		5.4M	----	----	----	11,000/100 ml.		10M	10M	5M	5M
	INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: SALT LAKE COUNTY COTTONWOOD WASTEWATER TREATMENT PLANT												
BOD_5	I.7.14., IV.B.1.2.3	2015*		2044	2266	2510	2778	6.2 mg/l		6.0	6.0	5.0	5.0
Coliform	" "	10,400/100 ml.		5.4M	----	----	----	11,000/100 ml.		10M	10M	5M	5M
	INDIVIDUAL SOURCE OR CLUSTER OF SOURCES:												

TABLE IV - WATER QUALITY IMPROVEMENT THROUGH COMPLETION OF ACTION ITEMS

INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: MURRAY WASTEWATER TREATMENT PLANT

QUALITY-PARAMETERS	ASSOCIATED ACTION ITEMS REQUIRED FOR REDUCTION	PRESENT WASTE LOADS (24 hr - ave)	WASTE LOADS REDUCTION (SEE TABLE III)					PRESENT WATER QUALITY	ANTICIPATED WATER QU (7-day - 10 year flo (SEE TABLE II AND TABLE III)				
	(From TABLE III)	(See TABLE I)	FY 72	FY 73	FY 74	FY 75	FY 76	(See TABLE II)	FY 72	FY 73	FY 74	FY 75	FY 76
BOD_5	I.3.7.14., IV.C.1,2.3	1066#		1059	1176	1305	1447	22.0 mg/l		20	15	10	5
Coliform	" "	35,500		80.5M	----------			240,000/100 ml.		200M	150M	75M	5M
INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: SALT LAKE SUBURBAN NO. 1 WASTEWATER TREATMENT PLANT													
BOD_5	I.7.14., IV.D.1.2	1849#		1574	1777	2001	2247	21.0 mg/l		20	15	15	5
Coliform	" "	10,400		5.4M	----------			11,000/100 ml.		10M	10M	5M	5M
INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: TRI-COMMUNITY (Midvale) WASTEWATER TREATMENT PLANT													
BOD_5	I.7.14., IV.E.1.2	891#		8219	19	1027	1146	40.0 mg/l		35.0	30.0	20.0	5.0
Coliform	" "	53,100/100 ml.		48,100	----------			46,000/100 ml.		40M	30M	20M	5M
INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: SANDY WASTEWATER TREATMENT PLANT													
BOD_5	I.7.14., IV.F.1.2.3.4	530#		583	641	705	776	7.3 mg/l		7.0	6.0	5.0	4.0
Coliform	" "	16,712/100 ml.		11,712	----------			24,000/100 ml.		20M	15M	10M	5M

TABLE IV - WATER QUALITY IMPROVEMENT THROUGH COMPLETION OF ACTION ITEMS

INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: UTAH DIVISION OF WILDLIFE (Scott Ave) UT 196

QUALITY PARAMETERS	ASSOCIATED ACTION ITEMS REQUIRED FOR REDUCTION	PRESENT WASTE LOADS (24 hr - ave)	WASTE LOADS REDUCTION (SEE TABLE III)					PRESENT WATER QUALITY	ANTICIPATED WATER QU (7-day - 10 year flo (SEE LOS & TABLE III)				
	(From TABLE III)	(See TABLE I)	FY 72	FY 73	FY 74	FY 75	FY 76	(See TABLE II)	FY 72	FY 73	FY 74	FY 75	FY 76
BOD_5	I.1B.5.6., IV.C.1.2	3#	0	0	0	0	0	3.9 mg/l at RM 0.26		3.0	3.0	2.0	2.0
Coliform	" "	2100/100 ml.	-	0	0	0	0	110,000/100 ml. @ RM 0.26		100M	75M	25M	5M
	INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: KEY INDUSTRIES UT 227												
BOD_5	I.1B.5.6., IV.H.1.2	No Data		-	-	-	-	25 mg/l		-	-	-	-
Coliform	" "	" "	-	-	-	-	-	46,000/100 ml.		-	-	-	-
	INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: UTAH STATE PRISON												
BOD_5	IV.I.1	17#		2	0	0	0	4.5 mg/l		4.0	0	0	0
Total Coliform	" "	445,000/100 ml.		440M	----	----	----	24,000/100 ml.		20M	0	0	0
	INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: UTAH WOOL PULLING, UT 159												
BOD_5	I.1B.5.6., V.A.1	2970#		3252	3252	0	0	25 mg/l		20	15	10	5
Total Coliform	" "	1,251,812/100 ml.		1,251	1,812	0	0	2,400,000/100 ml.		1M	500M	25M	5M

TABLE IV - WATER QUALITY IMPROVEMENT THROUGH COMPLETION OF ACTION ITEMS

INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: PHILLIPS PETROLEUM, UT 211

WATER QUALITY-PARAMETERS	AGGREGATED ACTION ITEMS REQUIRED FOR REDUCTION (From TABLE III)	PRESENT WASTE LOADS (24 hr - ave) (See TABLE I)	WASTE LOADS REDUCTION (SEE TABLE III) FY 72	FY 73	FY 74	FY 75	FY 76	PRESENT WATER QUALITY (See TABLE II)	ANTICIPATED WATER QUALITY (7-day - 10 year flow) (SEE LINES A TABLE III) FY 72	FY 73	FY 74	FY 75	FY 76
BOD_5	I.1B.5.6., V.B.1.	256#		229	257	287	321	Approx. 6 mg/l		6	6	5	5
Total Coliform	" "	No Data						Approx. 10,000/100 ml.		10M	10M	5M	5M
	INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: UTAH POWER & LIGHT, UT 082												
BOD_5	I.1B.5.6., V.C.1	29#		0	0	0	0	11.4 mg/l		11	9	8	5
Total Coliform	" "	No Data						930,000/100 ml.		750M	300M	50M	5M
	INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: UTAH POWER AND LIGHT, UT 081												
BOD_5	I.1B.5.6., V.D.1	Insignificant		0	0	0	0	11.4 mg/l		11	9	8	5
Total Coliform	" "	No Data						930,000/100 ml.		750M	300M	50M	5M
	INDIVIDUAL SOURCE OR CLUSTER OF SOURCES:												

TABLE IV - WATER QUALITY IMPROVEMENT THROUGH COMPLETION OF ACTION ITEMS

INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: SOUTH DAVIS COUNTY NORTH WASTEWATER TREATMENT PLANT

WATER QUALITY PARAMETERS	AGGREGATED ACTION ITEMS REQUIRED FOR REDUCTION (From TABLE III)	PRESENT WASTE LOADS (24 hr - ave) (See TABLE I)	WASTE LOADS REDUCTION (SEE TABLE III) FY 72	FY 73	FY 74	FY 75	FY 76	PRESENT WATER QUALITY (See TABLE II)	ANTICIPATED WATER QUALITY (7-day - 10 year flow) (SEE TABS A TABLE III) FY 72	FY 73	FY 74	FY 75	FY 76
BOD_5	I.3.7.14.15., V.E.1	269#		244	274	307	343	10.3		10	8	7	5
Total Coliform	" "	4800/100 ml.						1,100,000/100 ml.		950M	300M	75M	5M

INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: SOUTH SALT LAKE WASTEWATER TREATMENT PLANT

BOD_5	I.3.7.14., V.F.1.2	318#		239	274	312	354	13.6 mg/l		13	10	8	5
Total Coliform	" "	4900/100 ml.						2,400,000/100 ml.		1M	300M	50M	5M

INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: SOUTH DAVIS COUNTY SOUTH WASTEWATER TREATMENT PLANT

BOD_5	I.3.7.14., IV.G.1.2.3	618#		514	582	656	737	7.1 mg/l		7	6	5	5
Total Coliform	" "	38,000/100 ml.		33M	----	----	----	24,000/100 ml.		20M	10M	5M	5M

INDIVIDUAL SOURCE OR CLUSTER OF SOURCES: DENVER & RIO GRANDE RR. UT 180

BOD_5	I.1B.5.6., V.H.1	No Data		0	0	0	0	9.2 mg/l		8	7	5	5
Total Coliform	" "	7500		2.5M	----	----	----	2,400,000/100 ml.		1M	300M	50M	5M